

digital

DBII-A
Engineering Drawings
Digital Equipment Corporation

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MASTER DRAWING LIST

DWG. NO.	REV.	NO. OF SHEETS	TITLE																																												
A-PL-DB11-A-0	D	1	DB11-A UA PL																																												
D-AD-7009612-0-0	C	2	WIRED ASSY																																												
A-WT-7009612-0	#	1	AWT REVISION STATUS																																												
D-MU-DB11-A-01	C	1	MODULE UTILIZATION																																												
A-PL-DB11-A-01	C	1	MODULE UTILIZATION PL																																												
D-BS-DB11-A-02	A	1	BUS REPEATER DB11 UNIDIR LINES																																												
D-BS-DB11-A-03	A	1	BUS REPEATER DATA LINES																																												
D-IC-DB11-A-04	B	1	BUS AND POWER CONNECTIONS																																												
D-BD-DB11-A-05	C	1	DB11 INTER CONNECTION DIAGRAM																																												
K-WL-DB11-A-06	J	2	WIRE LIST (DB11-A) (COMPLETE)																																												
A-SP-DB11-A-7	C	4	BUS REPEATER SPECIFICATION																																												
A-AL-DB11-A-10		1	ACCESSORY LIST																																												
E-IA-7009562-0-0	#	1	G772 SYS UNIT HARNESS																																												
A-SP-DB11-A-8	REF	2	TEST PROCEDURE																																												
A-SP-DB11-A-9	REF	2	IN HOUSE ACCEPTANCE TEST																																												
REVISIONS <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>DRN.</td> <td>DATE</td> </tr> <tr> <td>BISSONNETTE</td> <td>2/23/71</td> </tr> <tr> <td>CHK'D.</td> <td>DATE</td> </tr> <tr> <td>MACKENZIE</td> <td>3/3/71</td> </tr> <tr> <td>ENG.</td> <td>DATE</td> </tr> <tr> <td>V/Bassani</td> <td>3/16/71</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> </tr> <tr> <td>V/Bassani</td> <td>3/1/71</td> </tr> <tr> <td>PROD.</td> <td>DATE</td> </tr> <tr> <td>Q. Shash</td> <td>3/25/71</td> </tr> <tr> <td>FIRST USED ON</td> <td></td> </tr> <tr> <td>PDP II</td> <td></td> </tr> <tr> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td></td> </tr> <tr> <td>A</td> <td>M</td> <td>L</td> <td>S</td> </tr> <tr> <td>SCALE</td> <td>—</td> <td>—</td> <td></td> </tr> <tr> <td>SHEET</td> <td>1</td> <td>OF</td> <td>2</td> </tr> <tr> <td>DIST.</td> <td></td> <td></td> <td></td> </tr> </table>				DRN.	DATE	BISSONNETTE	2/23/71	CHK'D.	DATE	MACKENZIE	3/3/71	ENG.	DATE	V/Bassani	3/16/71	PROJ. ENG.	DATE	V/Bassani	3/1/71	PROD.	DATE	Q. Shash	3/25/71	FIRST USED ON		PDP II		SIZE	CODE	NUMBER		A	M	L	S	SCALE	—	—		SHEET	1	OF	2	DIST.			
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 DB11-A BUS REPEATER																																															

ADDITIONAL CUSTOMER PRINTS

DB11-A

Drawing Number	Rev. Let.	Title
D-CS-M7212-0-1	#	A LINE REPEATER
D-CS-M7213-0-1	#	MASTER REPEATER
B-CS-M783-0-1	#	UNIBUS DRIVERS
B-CS-M784-0-1	#	UNIBUS RECEIVERS
B-CS-M785-0-1	#	UNIBUS TRANCEIVERS
C-CS-M930-0-1	#	BUS TERMINATOR
D-CS-M7248-0-1	#	UNIBUS REPEATER CARD

Rev.	Date	Change Number
P	11-74	DBIIA-00013
R	3-75	DBIIA 00014
S	1-76	DBIIA -00015

V. BISSONNETTE 2/23/71
Requested by _____ Date _____

Q. Shash 3/25/71
Authorized by _____ Date _____

A-ML-DB11-A SHEET 2 OF 2 R.F.V. S

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY V. BISSONNETTE
DATE 2/23/71

~~ENG VR-174-1~~

DATE 3/16/71

[View all reviews](#) | [Write a review](#)

CHECKED M. MACKENZIE
DATE 3/3/71

DATE 5/5/71 BY RBOB RE

PROD 08664
DATE 3-25-

Digitized by srujanika@gmail.com

SECTION

ISSUED SECT

* NOTE: For 11/45-11/50 CPU's with serial no's less than
2000 use harness 7008855. For 11/35-11/40 CPU's
with S/N less than 6000 or H960-D, E with S/N
less than 7000 use harness 7008909.

TITLE DB11-4 BUS REPEATER

ASSY NO.

SHEET 1 OF

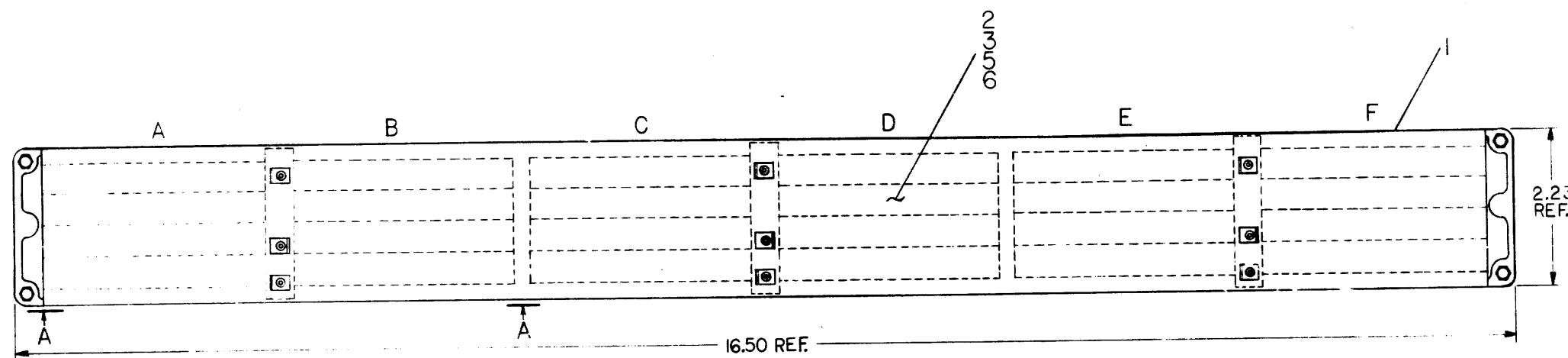
SIZE COD
A PI

NUMBER
DB11-A-6

REV. ECO NO
D. DBIIA-
20001

**DEC FORM NO.
DRA 110**

NOTES:
I. ALL VERTICAL HAND WIRING TO RUN
OUTSIDE OF CONNECTOR BLOCK



— 16.50 REI

— 3.25 — | LOCATE AS CLOSE TO TOP AS POSSIBLE
VIEW A-A 4

REF	AWT REVISION STATUS	A-WT-7009612-0	7
I	WIRE LIST	K-WLDBIHA-06	REF
A/R	WIRE 30AWG TWP PLK/WHT	9107720-09	6
A/R	WIRE 24 AWG SOLID KYNARINS.BLK	9107688-00	5
A/R	LOGIC FRAME DECALS	A-DC-7406371-0	4
A/R	WIRE 24 AWG SOLID KYNARINS. RED	9107688-22	3
A/R	WIRE 30AWG SOLID KYNARINS. YEL	9105740-44	2
I	BACK PLANE ASSY	7009152	1
EL	DESCRIPTION	PART NO.	ITEM NO.
QTY.			
PARTS LIST			
ED	DRN: <i>A. Wawler</i>	DATE 6-3-73	EQUIPMENT CORPORATION <small>DATAFAX 10000000000000000000</small>
	CHK'D: <i>g. Bellot</i>	DATE 10-30-73	TITLE
	ENG: <i>J. Hall</i>	DATE 10-3-73	
	APC. END: <i>R. Hall</i>	DATE 10-3-73	
	PROD. END: <i>R. Hall</i>	DATE 10-3-73	
	WIRED ASS'Y (DB11-A)		
NEXT HIGHER ASSEMBLY			
+ +		REV. C	
SCALE		DIA/D 7009612-0-0	
INCHES		1 2 3 4 5 6 7 8 9 10	

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DBII-A			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRAWN BY <i>A. W. Walker</i> DATE <i>8-3-73</i>	CHK'D BY <i>G. Bell</i> DATE <i>8-30-73</i>	EQUIPMENT CORPORATION WATKINSVILLE, GEORGIA 30674	
DECIMALS	ANGLES	JIGS	MACHINING	TITLE	
XXX .000	± 0° 30'	SWING <i>(Sally)</i>	DATE <i>10-21-73</i>	WIRED ASS'Y	
XX .00		AWC, END <i>(Ken)</i>	DATE <i>10-21-73</i>	(DBII-A)	
X .0		PROD. <i>(Ken)</i>	DATE <i>10-21-73</i>		
RE-DO'S AND BREAK SH. RP CORNERS SURFACE QUALITY ✓		NEXT HIGHER ASX			
MATERIAL					
FINISH		SCALE	STRETCH	REV C	
		SHEET	2		

BUREAU AG-107 153000		REVISION
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		DBIA-0000
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WIRE TABLE					
ITEM NO.	SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
3	+5V	A03 A2 A03 J2	C01 A2 E01 A2	RED	WIRES MUST PHYSICALLY RUN TO THE LEFT OF THE BLOCK AND PINS.
		A03 K2	B03 A2		
		A03 L2 A03 M2	D04 A2 F04 A2	RED	WIRES MUST PHYSICALLY RUN TO THE RIGHT OF THE BLOCK AND PINS.
5	GROUND	A03 D2 A03 C2 A03 E2 A03 NI A03 RI A03 PI A03 S1 A03 UI A03 SI A03 F2 A03 C2 A03 VI A03 TI F02 TI	A03 E2 A03 D2 A03 F2 A03 PI A03 S1 A03 RI A03 UI A03 SI A03 F2 A03 C2 C01 C2 E01 C2 CHASSIS	BLACK	
6	RIGHT BG4 GROUND	B04 E2 B03 C2	D04 E2 D02 C2	WHT, BLK } TWP	
	RIGHT BG4 GROUND	D04 E2 D02 C2	F02 F2 F02 C2	WHT, BLK } TWP	
6	RIGHT BG5 GROUND	B04 B1 B03 C2	D04 B1 D01 C2	WHT, BLK } TWP	
	RIGHT BG5 GROUND	D04 B1 D01 C2	F02 T2 F02 T1	WHT, BLK } TWP	
6	RIGHT BG6 GROUND	B04 A1 B02 C2	D04 A1 C04 T1	WHT, BLK } TWP	
	RIGHT BG6 GROUND	D04 A1 C04 T1	F02 N2 F02 T1	WHT, BLK } TWP	
6	RIGHT BG7 GROUND	A04 VI A04 TI	C04 VI C02 TI	WHT, BLK } TWP	
	RIGHT BG7 GROUND	C04 VI C02 TI	F02 M1 F02 C2	WHT, BLK } TWP	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
DBII-A				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. R. VOWLES	DATE 8-3-73	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	CHK'D <i>[Signature]</i>	DATE 10-30-73	MAINTAIN MASSACHUSETTS
XXX - .006	$\pm 0^{\circ} 30'$	ENG <i>[Signature]</i>	DATE 10-31-73	TITLE WIRED ASSY DBII-A
XX - .02		PROT. ENQ. <i>[Signature]</i>	DATE 10-7-73	
MOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY: <input checked="" type="checkbox"/>				
MATERIAL	NEXT HIGHER ASW			
FINISH	SCALE DIST.			
	SIZE CODE D/A/D	NUMBER 7009612-0-0	REV C	
	SCHEET 2 OF 2			

REVISIONS
CHARGE NO
REV
18000
DRAWING AC-107

DEC FORM NO
DRC 100-A

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DRAWING NUMBER

IN
RE

AUTOMATIC WIRE TESTER (AWT) REVISION STATUS

REV.

NUMBER
12-0

2009

ANSWER CODE

1

REVISIONS		REV.
CHK	CHANGE NO.	REV.
--	DB11A-00014	H
		ORIGINATED
V B	DB11A-00015	J

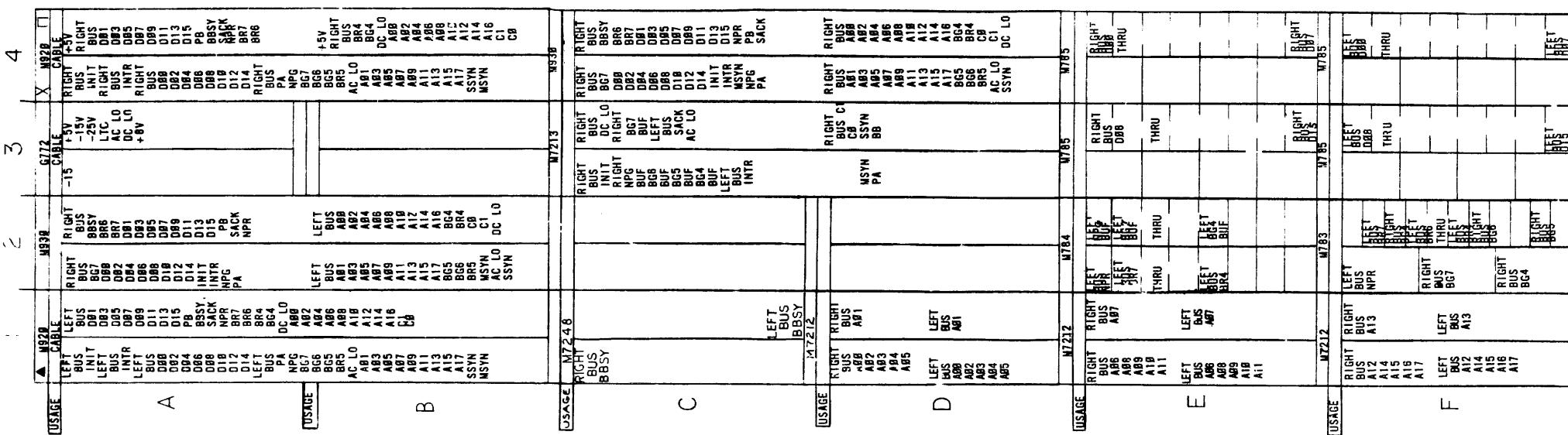
DRN. <i>21 file</i>	DATE <i>4-2-75</i>	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
CHK'D. <i>✓ checked</i>	DATE <i>4-2-75</i>			
ENG. <i>✓ Boston</i>	DATE <i>4-7-75</i>	TITLE		
PROD ENG. <i>✓ Boston</i>	DATE <i>4-7-75</i>	DBII-A		
PROD. <i>✓ Boston</i>	DATE <i>4-7-75</i>			
FIRST USED ON		AWT REVISION STATUS		
SCALE <i>-----</i>	SIZE AWT	CODE	NUMBER 7009612-0	REV. J
SHEET 1 OF 1	DIST.			

DRA 123

1

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NOTE: WHEN INSTALLING A DBII-A IN A BAIK 10 1/2" CHASSIS, THE AC LO AND DC LO WIRES MUST BE REMOVED FROM THE HARNESSES OF ALL OPTIONS AFTER THE DBII-A. THIS ONLY APPLIES TO OPTIONS MOUNTED IN THE SAME CHASSIS AS THE DBII-A.



- IF END OF BUS REPLACE M928 WITH M938
 - IF LAST UNIT IN BASIC BOX REPLACE M928 WITH BC11A/CABLE END WHEN EXPANDING TO PERIPHERAL BOXES
 - IF FIRST UNIT IN EXPANDER BOX REPLACE M928 WITH BC11A/CABLE END

ITEM NUMBER	QTY	DESCRIPTION	PART NO	ITEM NO
				PARTS LIST
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES ± .000 ± 1° 30'				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK S-APP (OTHERS)				
MATERIAL				
FINISH				
digital EQUIPMENT CORPORATION <small>MANUFACTURERS OF ELECTRONIC EQUIPMENT</small>				
MODULE UTILIZATION				
SCALE		SHEET 1 OF 1	DIST	REV C

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

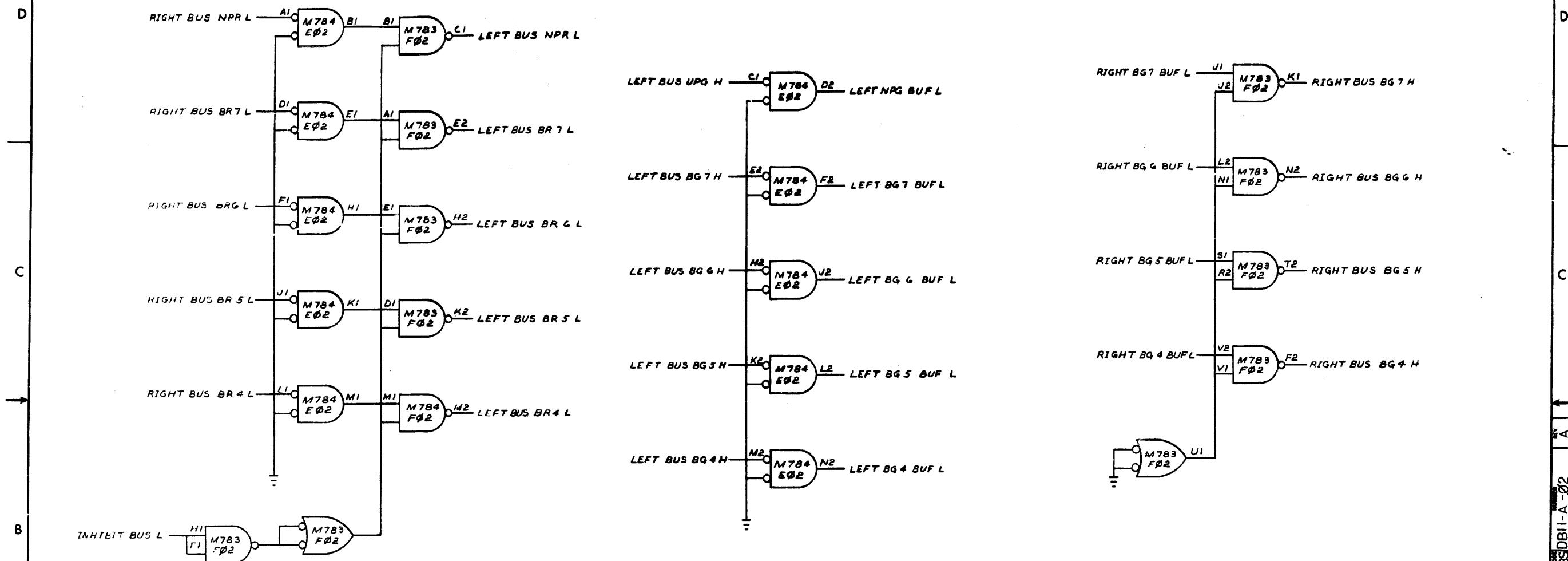
MADE BY V. BISSONNETTE
DATE 2/4/71
ENG *1 Batavia*
DATE 3/16/71

CHECKED M. MACKENZIE	SECTION
DATE 3/3/71	1
PROD <i>Q</i>	ISSUED SECT
DATE 3-25-71	1

DEC FORM NO.
DRA 110

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8 7 6 5 4 3 2 1



ITEM NUMBER		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DRA	V.B. SISONNETTE	DATE	2-10-71	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	DATE	3-14-71	
DIMENSION IN INCHES	ENCL	DATE	DATE	3-14-71	
TOLERANCES	REFL	DATE	DATE	3-14-71	
DECIMAL FRACTION ANGLES	PRINTED	DATE	DATE	3-14-71	
± .005 ± 1/64 ± 0°30'	REVISION	DATE	DATE	3-14-71	
FINAL SURFACE QUALITY	APPROVED	DATE	DATE	3-14-71	
REMOVE BURRS AND BREAK SHARP CORNERS	CONTRACTOR	DATE	DATE	3-14-71	
MATERIAL	NEXT HIGHER ASST	A-ML-DBII-A-0			
FINISH	SCALE	/ /			
	SHEET	1 OF 1			
	DATE				

EQUIPMENT CORPORATION
Maynard Massachusetts

BUS REPEATOR
DB II
UNIDIR. LINES

SIZE CODE: D B S D B I I - A - 0 2 NUMBER: D B S D B I I - A - 0 2 REV: A

REV	CHANGE NO.	DATE
A	DBII-A-00001	1/14/71
B	DBII-A-00001	1/14/71

FORM NO. 102A

8

7

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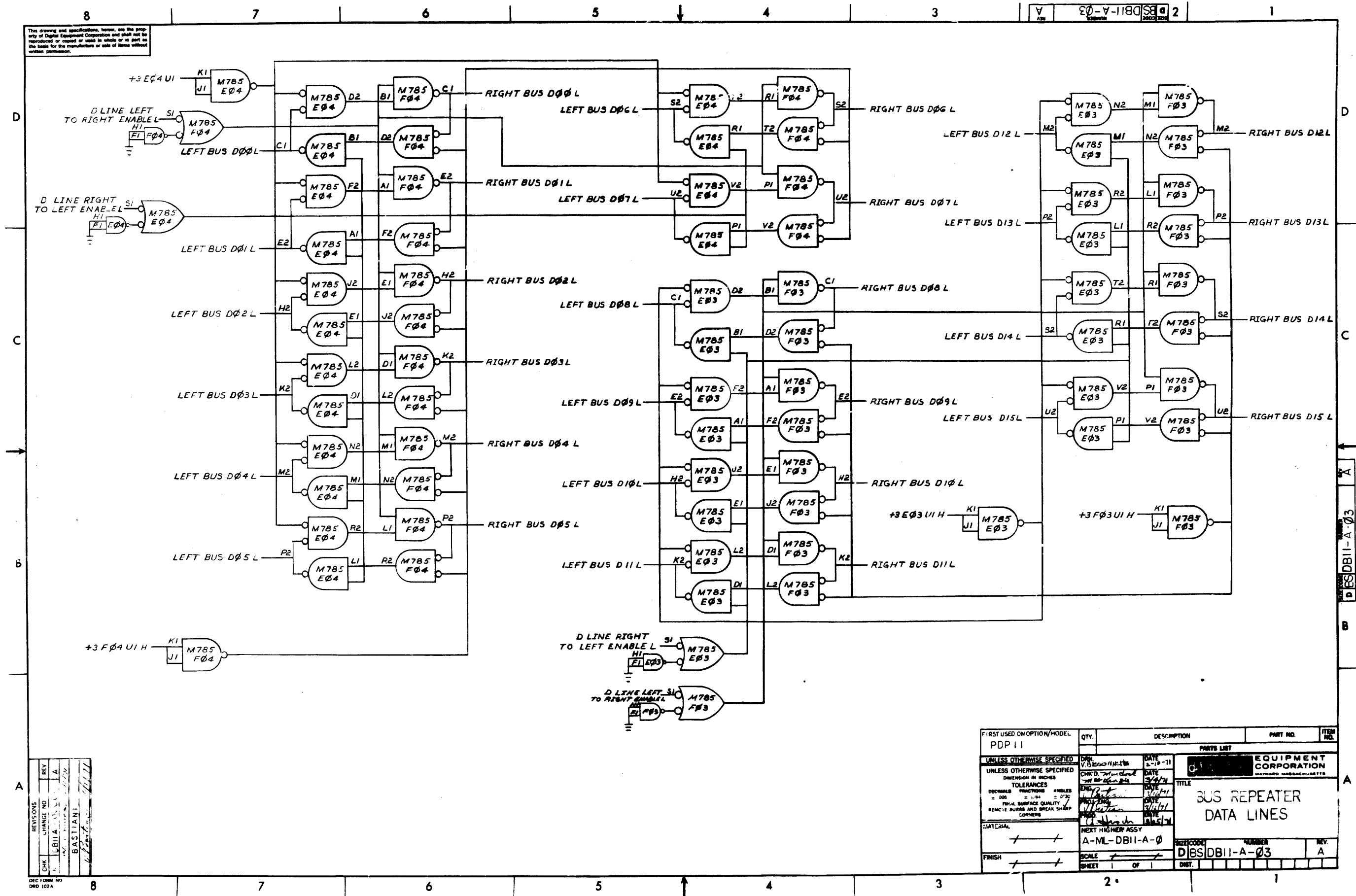
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A

B

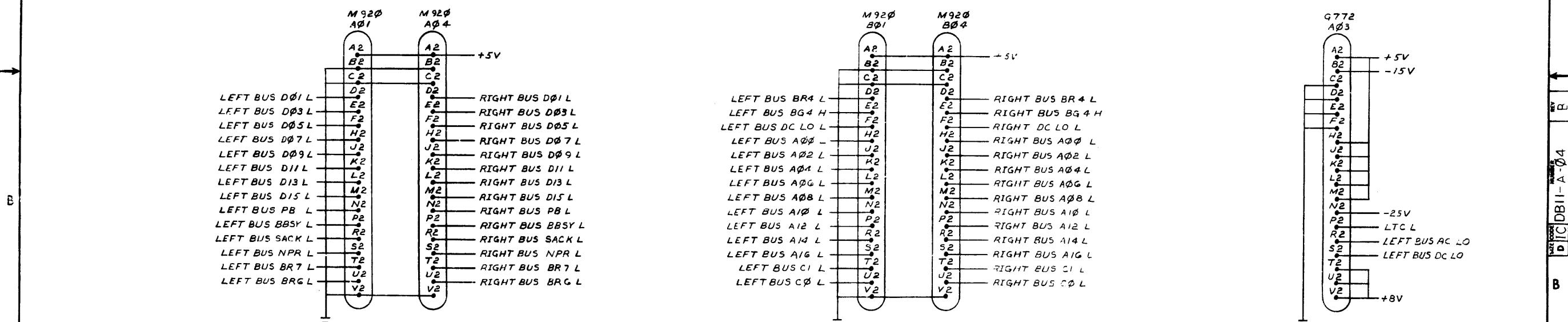
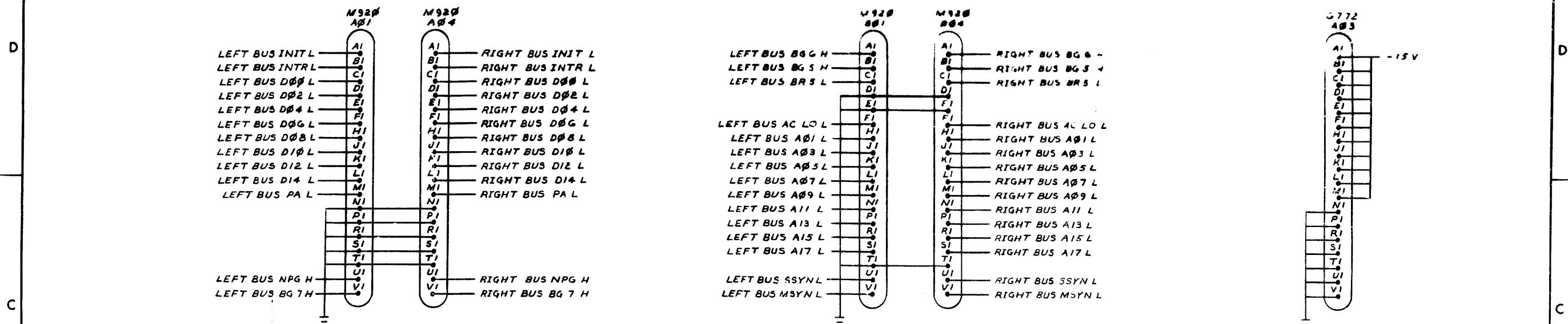
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D



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8 7 6 5 4 3 2 1



FIRST USED ON/OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DRN	VBISSONNETTE	DATE			
UNLESS OTHERWISE SPECIFIED		DATE			
UNLESS OTHERWISE SPECIFIED		DATE			
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS FRACTIONS ANGLES					
= .005 ± 1/64 ± 0°0'0"					
FINAL SURFACE QUALITY					
REMOVE BURRS AND BREAK SHARP					
EDGES					
MATERIAL					
FINISH					
SCALE					
SHEET					
1 OF 1					
DIST.					

PARTS LIST

DRN	VBISSONNETTE	DATE		EQUIPMENT
CHKD	DATE	DATE		CORPORATION
ENG	DATE	DATE		MAINTAIN MASSACHUSETTS
PROD	DATE	DATE		TITLE
TEST	DATE	DATE		BUS AND POWER
QC	DATE	DATE		CONNECTIONS
NEXT HIGHER ASSY				
A-ML-DBII-A-0				
SIZE CODE				NUMBER
D	I	C	DBII-A-04	REV.

REV.	
CHANGE NO.	
CHK	
REVISIONS	
DRD FORM NO	
DRD 102A	
8	

BASTIANI
FILATELLI C2
BASTIANI

7

6

5

4

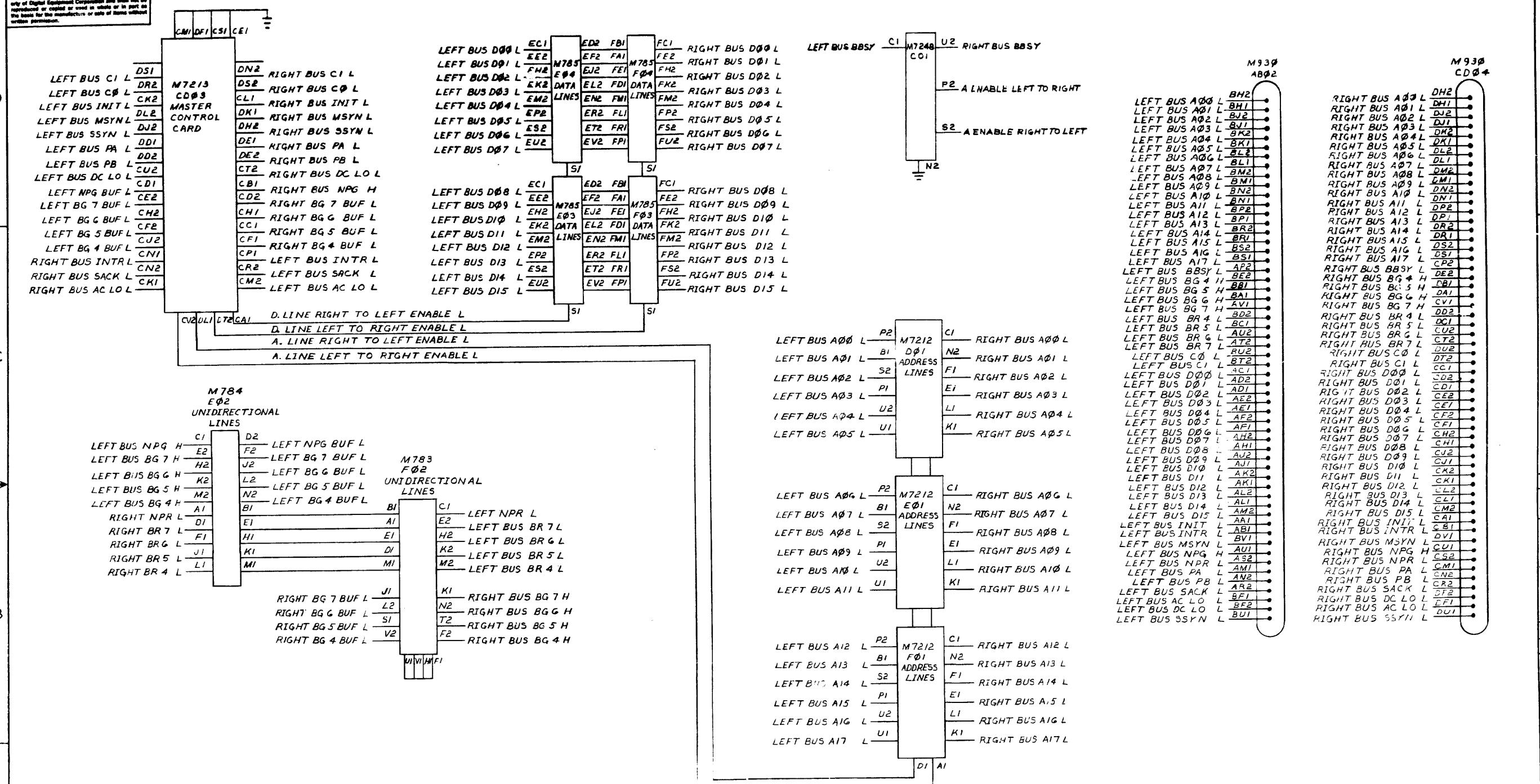
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2

1

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8 7 6 5 4 3 2 1



FRT USEC ON OPTION/MODEL PDP11		QTY	DESCRIPTION		PART NO	ITEM NO
PARTS LIST						
UNLESS OTHERWISE SPECIFIED	DRW	DATE				
DIMENSIONS IN INCHES						
TOLERANCES						
DECIMALS FRACTION ANGLES						
ENG. INCHES DEGREES MINUTES SECONDS						
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS						
PROJECT NO.		DATE				
PROD. NO.		DATE				
MATERIAL						
NEXT HIGH ASSY						
A-MI-DBII-A						
FINISH						
SCALE						
SHEET		OF 1				
SIZE CODE						
DIBD	DBII-A-05					
NUMBER						
REV	C					

REVISIONS	CHANGE NO	REV
CHK	DBII-A-00003	B
BY-Owner	9-13-71	
BASTIAN	T-71	
GR. DRAFT	T-71	
T. REILLY	T-71	
Editor	T-71	

DRWG NO

K-WL-DBII-A-06

REV LTR

H

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	DBIIA-00001	6-1-71	VB
B	DBIIA-00003	9-10-71	VB
C	DBIIA-00004	1-26-72	VB
D	DBIIA-00005	6-14-72	VB
E	DBIIA-00006	8-3-73	VR
F	DBIIA-00007	10-4-73	Vue
H	DBIIA-00009	12-17-73	

DRAWN <i>Murdoch MacKenzie</i>	DATE 3/3/71
CHECKED <i>A. Hollay</i>	DATE 3/4/71
ENG <i>V. Bartolini</i>	DATE 3/16/71
PROJ ENG <i>V. Bartolini</i>	DATE 3/16/71
PROD <i>G. Hinrich</i>	DATE 3/29/71

digital
EQUIPMENT
CORPORATION
 MAYNARD, MASSACHUSETTS

ASSY NO
D-AD-7008311-0-0

TITLE
WIRE LIST
FOR TAPE* FILE*

SIZE CODE	PCN NO	REV LTR
KWL	DBII-A-06	H

SCALE ← → SHEET 1 OF 1 DIST.

DB11A.H HND288.V22(22) 11/06/73
 RUN NAME A/P PIN ORDER BAY = Q DRAW RV PG Y X Z REMARKS 19-DEC-73 9:49 PAGE 1
 NAME PIN ORDER

	A/P	PIN	ORDER	BAY =	Q	DRAW	RV	PG	Y	X	Z	REMARKS	19-DEC-73	9:49	PAGE 1
													LENGTH	EXCEPTIONS	RUN NUMBER
+3V		F02V1	1-01 *	2											
+3V		F02U1	1-02 *											1	
+3V		F02H2	1-03 *											1	
+3V		F02N1	1-04 *											1	
+3V		F02J2	1-05 *											1	
+3V		F02H1	1-06 *											1	
+3V		F02F1	1-07 *											1	
+3V				1									16-4/8		
A FN LEFT TO RIGHT		C01P2	1-01 *												2
A FN LEFT TO RIGHT		C03V2	1-02 *											2	
A FN LEFT TO RIGHT		D01A1	E01A1	1-03 *										2	
A FN LEFT TO RIGHT		E01A1		1-04 *										2	
A FN LEFT TO RIGHT		F01A1		1-05 *										2	
A FN LEFT TO RIGHT				1									17-7/8		
A FN RIGHT TO LEFT		D01D1	C01S2	1-01 *	2									1-7	
A FN RIGHT TO LEFT		C01S2		1-02 *										3	
A FN RIGHT TO LEFT		D03L1	E01D1	1-03 *										3	
A FN RIGHT TO LEFT		E01D1		1-04 *										3	
A FN RIGHT TO LEFT		F01D1		1-05 *										3	
A FN RTGHT TO LEFT				1									19-2/8		
AA2		A02A2	A01A2	1-01 *											4
AA2		A01A2		1-02 *										4	
AA2		B01A2		1-03 *										4	
AA2		B02A2		1-04 *										4	
AA2				1									11-3/8		
AB2		A01B2		1-01 *										5	
AB2		A02B2		1-02 *										5	
AB2		A04B2		1-03 *										5	
AB2		C04B2		1-04 *										5	
AB2				1									13-4/8		
AN1		A01N1		1-01 *										6	
AN1		A02N1	A04N1	1-02 *										6	
AN1		A04N1		1-03 *										6	
AN1		C04N1		1-04 *										6	
AN1				1									14-1/8		
AP1		A01P1		1-01 *										7	
AP1		A02P1	A04P1	1-02 *										7	
AP1		A04P1		1-03 *										7	
AP1		C04P1		1-04 *										7	
AP1				1									14-3/8		

DB11A.H RUN NAME	HND288.V22(22) 11/06/73								19-DEC-73	9149	PAGE 2				
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
		NAME	PIN	ORDER											
AR1		A01R1		1-01 *						1					8
AR1		A02R1	A04R1	1-02 *						2					8
AR1		A04R1		1-03 *						1			3-6		8
AR1		C04R1		1-04 *											8
AR1				1									14-1/8		8
AS1		A01S1		1-01 *						1					9
AS1		A02S1	A04S1	1-02 *						2					9
AS1		A04S1		1-03 *						1			3-7		9
AS1		C04S1		1-04 *											9
AS1				1									14-3/8		9
AV2		A01V2		1-01 *						1					10
AV2		A02V2		1-02 *						2					10
AV2		A04V2		1-03 *						1					10
AV2		C04V2		1-04 *											10
AV2				1									13-4/8		10
B TNTT		C03J1												1-PIN RUN	11
BB2		B01B2		1-01 *						1					12
BB2		B02B2		1-02 *						2					12
BB2		B04B2		1-03 *						1					12
BB2		D04B2		1-04 *											12
BB2				1									13-4/8		12
BD1		B01D1		1-01 *						1					13
BD1		B02D1	B04D1	1-02 *						2					13
PD1		B04D1		1-03 *						1			3-6		13
BD1		D04D1		1-04 *											13
BD1				1									14-1/8		13
BE1		B01E1		1-01 *						1					14
BE1		B02E1	B04E1	1-02 *						2					14
BE1		B04E1		1-03 *						1			3-7		14
BE1		D04E1		1-04 *											14
BE1				1									14-3/8		14
BV2		A01C2		1-01 *						2					15
BV2		A01T1		1-02 *						1					15
BV2		B01C2		1-03 *						2					15
BV2		B01T1		1-04 *						1					15
BV2		B01V2		1-05 *						2					15
BV2		B02V2		1-06 *						1					15
BV2		B04V2		1-07 *						2					15
BV2		D04V2		1-08 *											15
BV2				1									27-6/8		15

DB11A.H RUN NAME	HNU288.V22(22) 11/06/73							19-DEC-73	9:49	PAGE 3					
	A/P NAME	PTN PIN	ORDER PIN	BAY - ORDER	U	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
CA2		A04A2		1-01 *	1						1		2-3		16
CA2		B04A2	C04A2	1-02 *							2				16
CA2		C04A2		1-03 *							1		2-3		16
CA2		D04A2		1-04 *											16
CA2				1									15-4/8		16
D LEFT TO RIGHT EN		D03I2		1-01 *							1		3-7		17
D LEFT TO RIGHT EN		F04S1		1-02 *							2				17
D LEFT TO RIGHT EN		F03S1		1-03 *											17
D LEFT TO RIGHT EN				1									11-1/8		17
D RIGHT TO LEFT EN		C03A1		1-01 *							1				18
D RIGHT TO LEFT EN		F03S1		1-02 *							2				18
D RIGHT TO LEFT EN		F04S1		1-03 *											18
D PIGHT TO LEFT EN				1									12-0/8		18
E2B1		F02B1		1-01 *							1		2-7		19
E2B1		F02B1		1-02 *											19
E2B1				1									6-3/8		19
E2E1		E02E1		1-01 *							1		2-5		20
E2E1		F02A1		1-02 *											20
F2F1				1									5-7/8		20
E2H1		F02H1		1-01 *							1		2-5		21
E2H1		F02E1		1-02 *											21
E2H1				1									5-7/8		21
E2K1		E02K1		1-01 *							1		2-4		22
E2K1		F02D1		1-02 *											22
E2K1				1									5-5/8		22
E2M1		E02M1		1-01 *							1		2-5		23
E2M1		F02M1		1-02 *											23
E2M1				1									5-7/8		23
E3		F03J1		1-01 *							1				24
E3		F03K1		1-02 *							2				24
E3		F03U1	D03B1	1-03 *							1				24
E3		D03B1		1-04 *											24
E3				1									12-4/8		24
E3A1		E03A1		1-01 *							1		3-2		25
E3A1		F03F2		1-02 *											25
E3A1				1									7-1/8		25

DB11A.H
 RUN NAME HND288.V22(22) 11/06/73
 A/P PIN ORDER BAY -
 NAME PIN ORDER J DRAW RV PG Y X Z REMARKS 19-DEC-73 LENGTH 9:49 EXCEPTIONS PAGE 4
 E3B1 F03M1 1-01 * 1 2-7 26
 E3B1 F03G2 1-02 * 1 6-3/8 26
 E3R1 1

 E3D1 F03J1 1-01 * 1 3-2 27
 E3D1 F03L2 1-02 * 1 7-1/8 27
 E3D1 1

 E3D2 E03D2 1-01 * 1 28
 E3D2 F03B1 1-02 * 1 5-0/8 28
 E3D2 1

 E3E1 F03E1 1-01 * 1 3-1 29
 E3E1 F03J2 1-02 * 1 6-7/8 29
 E3E1 1

 F3F2 F03F2 1-01 * 1 30
 F3F2 F03A1 1-02 * 1 4-6/8 30
 F3F2 1

 E3J2 F03J2 1-01 * 1 31
 E3J2 F03E1 1-02 * 1 5-0/8 31
 E3J2 1

 E3L1 F03L1 1-01 * 1 3-1 32
 E3L1 F03R2 1-02 * 1 6-7/8 32
 E3L1 1

 E3L2 F03L2 1-01 * 1 33
 E3L2 F03D1 1-02 * 1 4-4/8 33
 E3L2 1

 E3M1 F03M1 1-01 * 1 3-0 34
 E3M1 F03N2 1-02 * 1 6-5/8 34
 E3M1 1

 E3N2 F03N2 1-01 * 1 35
 E3N2 F03M1 1-02 * 1 5-2/8 35
 E3N2 1

 F3P1 F03P1 1-01 * 1 3-2 36
 F3P1 F03V2 1-02 * 1 7-1/8 36
 F3P1 1

 F3R1 E03R1 1-01 * 1 2-7 37
 F3R1 F03T2 1-02 * 1 6-3/8 37
 F3R1 1

DB11A.H
 RUN NAME HND288.V22(22) 11/06/73
 A/P PIN ORDER BAY -
 NAME PIN ORDER Q DRAW RV PG Y X Z REMARKS 19-DEC-73 LENGTH 9:49 EXCEPTIONS PAGE 5
 E3P2 F03R2 1-01 * 1 38
 E3R2 F03L1 1-02 * 1 4-6/8 38
 E3P2 1

 E3T2 F03T2 1-01 * 1 39
 E3T2 F03R1 1-02 * 1 5-0/8 39
 E3T2 1

 E3V2 F03V2 1-01 * 1 40
 E3V2 F03P1 1-02 * 1 4-6/8 40
 E3V2 1

 E4 F04D2 1-01 * 1 41
 E4 F04B1 1-02 * 1 5-0/8 41
 E4 1

 E4P1 F04P1 1-01 * 1 42
 E4P1 F04V2 1-02 * 1 6-0/8 42
 E4P1 1

 F4P1 F04R1 1-01 * 1 43
 F4P1 F04T2 1-02 * 1 5-4/8 43
 F4P1 1

 E4U1 F04J1 1-01 * 1 44
 E4U1 F04K1 1-02 * 2 44
 E4U1 E04U1 D03C1 1-03 * 1 44
 E4U1 D03C1 1-04 * 1 12-4/8 44
 E4U1 1

 E4V2 F04V2 1-01 * 1 45
 E4V2 F04P1 1-02 * 1 4-6/8 45
 E4V2 1

 EA F04A1 1-01 * 1 46
 EA F04F2 1-02 * 1 6-0/8 46
 FA 1

 FB F04B1 1-01 * 1 47
 FB F04D2 1-02 * 1 5-4/8 47
 EB 1

 FD E04D1 1-01 * 1 48
 FD F04L2 1-02 * 1 6-0/8 48
 EO 1

DB11A.H RUN NAME	HHD26H.V42(22) 11/06/73							19-DFC-73	Y149	PAGE 6				
	A/P	PIN	UPD/RN	BAY - ORDER	U	DRAW	RV	PG	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
EE		F04E1		1-01 *						1				49
EE		F04J2		1-02 *										49
EE				1								5-6/8		49
EF		F04F2		1-01 *						1				50
FF		F04A1		1-02 *										50
FF				1								4-6/8		50
FJ		F04J2		1-01 *						1				51
FJ		F04e1		1-02 *										51
FJ				1								5-0/8		51
FK		F04L1		1-01 *						1				52
EK		F04R2		1-02 *										52
FK				1								5-6/8		52
EL		F04L2		1-01 *						1				53
EL		F04D1		1-02 *										53
FL				1								4-4/8		53
EM		F04P1		1-01 *						1				54
FM		F04N2		1-02 *										54
EM				1								5-4/8		54
EN		F04N2		1-01 *						1				55
FN		F04M1		1-02 *										55
EN				1								5-2/8		55
ER		F04R2		1-01 *						1				56
ER		F04L1		1-02 *										56
ER				1								4-6/8		56
FT		F04T2		1-01 *						1				57
FT		F04H1		1-02 *										57
FT				1								5-0/8		57
F3		F03J1		1-01 *						1				58
F3		F03k1		1-02 *						2				58
F3		F03U1		1-03 *										58
F3				1								5-6/8		58
F4		F04J1		1-01 *						1				59
F4		F04K1		1-02 *						2				59
F4		F04U1		1-03 *										59
F4				1								5-6/8		59

HND288.V22(22) 11/06/73												19-DEC-73		9849	PAGE 7
A/P	PTN	ORDER	BAY -	U	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER	
	NAME	PIN	ORDER												
GND	F03C2		1-01 *								1			60	
GND	E03H1		1-02 *								2			60	
GND	F03F1		1-03 *								1			60	
GND	F04H1		1-04 *								2			60	
GND	E04F1		1-05 *								1			60	
GND	F04C2		1-06 *								2			60	
GND	F04C2		1-07 *								1			60	
GND	F04H1		1-08 *								2			60	
GND	F04F1		1-09 *								1			60	
GND	F03C2		1-10 *								2			60	
GND	F03F1		1-11 *								1			60	
GND	F03H1		1-12 *											60	
GND			1									32-2/8		60	
INHIBIT ACLO	C03E1		1-01 *								1			61	
INHIBIT ACLO	C03C2		1-02 *											61	
INHIBIT ACLO			1									2-6/8		61	
INHIBIT BUS	D03F1		1-01 *								1			62	
INHIBIT BUS	D03C2	C01N2	1-02 *								2			62	
INHIBIT BUS	C01N2	C01C2	1-03 *								1			62	
INHIBIT BUS	C01C2		1-04 *											62	
INHIBIT BUS			1									10-4/8		62	
INHIBIT DCLO	C03T1		1-01 *								1			63	
INHIBIT DCLO	C03S1		1-02 *											63	
INHIBIT DCLO			1									2-4/8		63	
INHIBIT INIT	C03M1		1-01 *								1			64	
INHIBIT INIT	D03E1		1-02 *											64	
INHIBIT INIT			1									5-6/8		64	
L R D00	A01C1	A02C1	1-01 *								2			65	
L R D00	A02C1		1-02 *								1			65	
L R D00	E04C1		1-03 *											65	
L R D00			1									16-3/8		65	
L R D01	A01D2		1-01 *								2			66	
L R D01	A02D2		1-02 *								1			66	
L R D01	E04E2		1-03 *											66	
L R D01			1									16-0/8		66	
L R D02	A01D1	A02D1	1-01 *								2			67	
L R D02	A02D1		1-02 *								1			67	
L R D02	E04H2		1-03 *											67	
L R D02			1									16-7/8		67	

DB11A.H RUN NAME	HND288.V22(22) 11/06/73				Q	DRAW	RV	PG	Y	X	Z	REMARKS	19-DEC-73	9:49	PAGE 8
	A/P	PIN	ORDER	BAY - NAME	PIN	ORDER							LENGTH	EXCEPTIONS	RUN NUMBER
L R D03		A01E2	A02E2	1-01 *							2				68
L B D03		A02E2		1-02 *							1		6-6		68
L B D03		E04K2		1-03 *											68
L B D03				1									16-7/8		68
L B D04		A01E1		1-01 *							2				69
L B D04		A02E1		1-02 *							1				69
L B D04		E04M2		1-03 *											69
L B D04				1									17-0/8		69
L R D05		A01F2	A02F2	1-01 *							2				70
L R D05		A02F2		1-02 *							1		6-7		70
L R D05		E04P2		1-03 *											70
L R D05				1									17-1/8		70
L B D06		A01F1		1-01 *							2				71
L B D06		A02F1		1-02 *							1				71
L R D06		E04S2		1-03 *											71
L B D06				1									17-2/8		71
L R D07		A01H2		1-01 *							2				72
L R D07		A02H2		1-02 *							1				72
L R D07		E04U2		1-03 *											72
L R D07				1									17-2/8		72
L R D08		A01H1		1-01 *							2				73
L R D08		A02H1		1-02 *							1				73
L R D08		E03C1		1-03 *											73
L R D08				1									15-2/8		73
L R D09		A01J2		1-01 *							2				74
L R D09		A02J2		1-02 *							1				74
L R D09		E03E2		1-03 *											74
L R D09				1									15-4/8		74
L R D10		A01J1		1-01 *							2				75
L R D10		A02J1		1-02 *							1				75
L R D10		E03H2		1-03 *											75
L R D10				1									15-6/8		75
L R D11		A01K2		1-01 *							2				76
L R D11		A02K2		1-02 *							1				76
L R D11		E03K2		1-03 *											76
L R D11				1									15-6/8		76

DB11A.H RUN NAME	HND200.V22(22) 11/06/73							19-DEC-73	9:49	PAGE 9					
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
		NAME	PIN	ORDER											
L B D12		A01K1		1-01 *							2			77	
L B D12		A02K1		1-02 *							1			77	
L B D12		E03M2		1-03 *										77	
L B D12				1									16-2/8	77	
L B D13		A01L2		1-01 *							2			78	
L B D13		A02L2		1-02 *							1			78	
L B D13		E03P2		1-03 *										78	
L B D13				1									16-2/8	78	
L B D14		A01L1		1-01 *							2			79	
L B D14		A02L1		1-02 *							1			79	
L B D14		E03S2		1-03 *										79	
L B D14				1									16-4/8	79	
L B D15		A01M2		1-01 *							2			80	
L B D15		A02M2		1-02 *							1			80	
L B D15		E03U2		1-03 *										80	
L B D15				1									16-4/8	80	
LEFT A00		B02H2	R01H2	1-01 *							2			81	
LEFT A00		F01H2		1-02 *							1		4-1	81	
LEFT A00		D01P2		1-03 *										81	
LEFT A00				1									11-5/8	81	
LEFT A01		B02H1		1-01 *							2			82	
LEFT A01		B01H1		1-02 *							1			82	
LEFT A01		D01B1		1-03 *										82	
LEFT A01				1									9-6/8	82	
LEFT A02		B02J2		1-01 *							2			83	
LEFT A02		B01J2		1-02 *							1			83	
LEFT A02		D01S2		1-03 *										83	
LEFT A02				1									11-2/8	83	
LEFT A03		B02J1		1-01 *							2			84	
LEFT A03		B01J1		1-02 *							1			84	
LEFT A03		D01P1		1-03 *										84	
LEFT A03				1									11-0/8	84	
LEFT A04		B02K2		1-01 *							2			85	
LEFT A04		B01K2		1-02 *							1			85	
LEFT A04		D01U2		1-03 *										85	
LEFT A04				1									11-2/8	85	

DB11A.H RUN NAME	HND288.V22(22) 11/06/73							19-DEC-73		9:49	PAGE 10		
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV PG Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
	NAME	PIN	ORDER										
LEFT A05		B02K1		1-01 *					2				86
LEFT A05		B01K1		1-02 *					1				86
LEFT A05		D01U1		1-03 *									86
LEFT A05				1							11-2/8		86
LEFT A06		B02L2		1-01 *					2				87
LEFT A06		B01L2		1-02 *					1				87
LEFT A06		E01P2		1-03 *									87
LEFT A06				1							13-2/8		87
LEFT A07		B02L1	B01L1	1-01 *					2				88
LEFT A07		B01L1		1-02 *					1		4-3		88
LEFT A07		E01B1		1-03 *									88
LEFT A07				1							12-1/8		88
LEFT A08		B02M2		1-01 *					2				89
LEFT A08		B01M2		1-02 *					1				89
LEFT A08		E01S2		1-03 *									89
LEFT A08				1							13-2/8		89
LEFT A09		B02M1		1-01 *					2				90
LEFT A09		B01M1		1-02 *					1				90
LEFT A09		E01P1		1-03 *									90
LEFT A09				1							13-0/8		90
LEFT A10		B02N2		1-01 *					2				91
LEFT A10		B01N2		1-02 *					1				91
LEFT A10		E01U2		1-03 *									91
LEFT A10				1							13-4/8		91
LEFT A11		B02N1		1-01 *					2				92
LEFT A11		B01N1		1-02 *					1				92
LEFT A11		E01U1		1-03 *									92
LEFT A11				1							13-4/8		92
LEFT A12		B02P2	B01P2	1-01 *					2				93
LEFT A12		B01P2		1-02 *					1		6-3		93
LEFT A12		E01P2		1-03 *									93
LEFT A12				1							16-1/8		93
LEFT A13		B02P1		1-01 *					2				94
LEFT A13		B01P1		1-02 *					1				94
LEFT A13		E01B1		1-03 *									94
LEFT A13				1							14-2/8		94

DB11A.H HND288.V22(22) 11/06/73
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS 19-DEC-73 9:49 LENGTH EXCEPTIONS PAGE 12
 NAME PIN ORDER
 LEFT BG7 A01V1 A02V1 1-01 * 2
 LEFT BG7 A02V1 1-02 * 1
 LEFT BG7 E02E2 1-03 *
 LEFT BG7 1
 6-0
 15-3/8 105
 LEFT BG7 BUF C03E2 1-01 * 1
 LEFT BG7 BUF E02F2 1-02 *
 LEFT BG7 BUF 1
 8-0/8 106
 106
 106
 LEFT BR4 R01D2 1-01 * 2
 LEFT BR4 R02D2 1-02 * 1
 LEFT BR4 F02M2 1-03 *
 LEFT BR4 1
 16-4/8 107
 107
 107
 LEFT BR5 R01C1 1-01 * 2
 LEFT BR5 B02C1 1-02 * 1
 LEFT BR5 F02K2 1-03 *
 LEFT BR5 1
 16-4/8 108
 108
 108
 108
 LEFT BR6 A01U2 A02U2 1-01 * 2
 LEFT BR6 A02U2 1-02 * 1
 LEFT BR6 F02H2 1-03 *
 LEFT BR6 1
 7-5
 10-5/8 109
 109
 109
 109
 LEFT BR7 A01T2 1-01 * 2
 LEFT BR7 A02T2 1-02 * 1
 LEFT BR7 F02E2 1-03 *
 LEFT BR7 1
 17-0/8 110
 110
 110
 110
 LEFT BUF BRSY D03A1
 1-PIN RUN 111
 LEFT BUF C00 D03P2
 1-PIN RUN 112
 LEFT BUF C01 D03M2
 1-PIN RUN 113
 LEFT BUF DCLO C03R1
 1-PIN RUN 114
 LEFT BUF MSYN D03H1
 1-PIN RUN 115
 LEFT BUF SSIN D03F2
 1-PIN RUN 116
 LEFT BUS ACLO R01F1 1-01 * 2
 LEFT BUS ACLO R02F1 1-02 * 1
 LEFT BUS ACLO C03M2 A03H2 1-03 * 2
 LEFT BUS ACLO A03R2 1-04 *
 1
 15-6/8 117
 117
 117
 117
 117

DB11A.H HND288.V22(22) 11/06/73
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS 19-DEC-73 9:49 LENGTH EXCEPTIONS PAGE 13
 NAME PIN ORDER
 LEFT BUS BRSY A01P2 A02P2 1-01 * 2
 LEFT BUS BRSY A02P2 C01C1 1-02 * 1
 LEFT BUS BRSY C01C1 1-03 *
 LEFT BUS BRSY 1
 3-2
 9-7/8 118
 118
 118
 118
 LEFT BUS C00 R01U2 1-01 * 2
 LEFT BUS C00 R02U2 1-02 * 1
 LEFT BUS C00 D03R2 1-03 *
 LEFT BUS C00 1
 10-2/8 119
 119
 119
 119
 LEFT BUS C01 R02I2 1-01 * 2
 LEFT BUS C01 R01I2 D03S1 1-02 * 1
 LEFT BUS C01 D03S1 1-03 *
 LEFT BUS C01 1
 10-4/8 120
 120
 120
 120
 LEFT BUS DCLO R01F2 1-01 * 2
 LEFT BUS DCLO R02F2 1-02 * 1
 LEFT BUS DCLO C03U2 A03S2 1-03 * 2
 LEFT BUS DCLO A03S2 1-04 *
 1
 17-0/8 121
 121
 121
 121
 121
 LEFT BUS INIT A01A1 1-01 * 2
 LEFT BUS INIT A02A1 1-02 * 1
 LEFT BUS INIT C03K2 1-03 *
 LEFT BUS INIT 1
 11-6/8 122
 122
 122
 122
 LEFT BUS INTR A01B1 1-01 * 2
 LEFT BUS INTR A02H1 1-02 * 1
 LEFT BUS INTR C03P1 1-03 *
 LEFT BUS INTR 1
 12-0/8 123
 123
 123
 123
 123
 LEFT BUS MSYN R01V1 1-01 * 2
 LEFT BUS MSYN R02V1 1-02 * 1
 LEFT BUS MSYN D03L2 1-03 *
 LEFT BUS MSYN 1
 9-6/8 124
 124
 124
 124
 124
 LEFT BUS NPG A01U1 A02U1 1-01 * 2
 LEFT BUS NPG A02U1 1-02 * 1
 LEFT BUS NPG E02C1 1-03 *
 LEFT BUS NPG 1
 5-5
 14-5/8 125
 125
 125
 125
 LEFT BUS PA A01M1 1-01 * 2
 LEFT BUS PA A02M1 1-02 * 1
 LEFT BUS PA D03D1 1-03 *
 LEFT BUS PA 1
 12-4/8 126
 126
 126
 126
 126

DB11A.H HND288.V22(22) 11/06/73 19-DEC-73 9:49 PAGE 14
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS LENGTH EXCEPTIONS RUN NUMBER
 NAME PIN ORDER

LEFT BUS PB	A01N2	1-01 *		2								127
LEFT BUS PR	A02N2	1-02 *		1								127
LEFT BUS PR	D03D2	1-03 *										127
LEFT BUS PR		1	.								12-2/8	127
LEFT BUS SACK	A01R2	1-01 *		2								128
LEFT BUS SACK	A02R2	1-02 *		1								128
LEFT BUS SACK	C03R2	1-03 *										128
LEFT BUS SACK		1	.								10-4/8	128
LEFT BUS SSYN	B01U1	1-01 *		2								129
LEFT BUS SSYN	B02U1	1-02 *		1								129
LEFT BUS SSYN	D03J2	1-03 *										129
LEFT BUS SSYN		1	.								9-4/8	129
LEFT NPG BUF	C03D1	1-01 *		1								130
LEFT NPG BUF	F02D2	1-02 *										130
LEFT NPG BUF		1	.								7-6/8	130
LEFT NPR	A02S2	A01S2	1-01 *		2							131
LEFT NPR	A01S2	1-02 *		1								131
LEFT NPR	F02C1	1-03 *										131
LEFT NPR		1	.								17-3/8	131
RB D00	A04C1	C04C1	1-01 *	2		2						132
RB D00	C04C1	1-02 *		1								132
RB D00	F04C1	1-03 *										132
RB D00		1	.								19-4/8	132
RB D01	A04D2	1-01 *		2		2						133
RB D01	C04D2	1-02 *		1								133
RB D01	F04E2	1-03 *										133
RB D01		1	.								18-0/8	133
PB D02	A04D1	C04D1	1-01 *	2		2						134
PB D02	C04D1	1-02 *		1								134
PB D02	F04H2	1-03 *										134
PB D02		1	.								19-2/8	134
RB D03	A04E2	C04E2	1-01 *		2							135
RB D03	C04E2	1-02 *		1								135
RB D03	F04K2	1-03 *										135
RB D03		1	.								18-5/8	135

DB11A.H HND288.V22(22) 11/06/73 19-DEC-73 9:49 PAGE 15
 RUN NAME A/P PTN ORDER BAY - Q DRAW RV PG Y X Z REMARKS LENGTH EXCEPTIONS RUN NUMBER
 NAME PIN ORDER

RB D04	A04E1	C04E1	1-01 *	2		2						136
RB D04	C04E1	1-02 *		1								136
RB D04	F04M2	1-03 *										136
RB D04		1	.								19-6/8	136
RB D05	A04F2	1-01 *		2		2						137
RB D05	C04F2	1-02 *		1								137
RB D05	F04P2	1-03 *										137
RB D05		1	.								18-6/8	137
RB D06	A04F1	C04F1	1-01 *	2		2						138
RB D06	C04F1	1-02 *		1								138
RB D06	F04S2	1-03 *										138
RB D06		1	.								20-0/8	138
RB D07	A04H2	C04H2	1-01 *		2							139
RB D07	C04H2	1-02 *		1								139
RB D07	F04U2	1-03 *										139
RB D07		1	.								19-3/8	139
RB D08	A04H1	1-01 *		2		2						140
RB D08	C04H1	1-02 *		1								140
RB D08	F03C1	1-03 *										140
RB D08		1	.								18-3/8	140
RB D09	A04J2	1-01 *		2		2						141
RB D09	C04J2	1-02 *		1								141
RB D09	F03E2	1-03 *										141
RB D09		1	.								17-6/8	141
RB D10	A04J1	1-01 *	2			2						142
RB D10	C04J1	1-02 *		1								142
RB D10	F03H2	1-03 *										142
RB D10		1	.								18-5/8	142
RB D11	A04K2	1-01 *		2		2						143
RB D11	C04K2	1-02 *		1								143
RB D11	F03K2	1-03 *										143
RB D11		1	.								18-0/8	143
RB D12	A04K1	1-01 *	2			2						144
RB D12	C04K1	1-02 *		1								144
RB D12	F03M2	1-03 *										144
RB D12		1	.								19-1/8	144

DB11A.H HND288.V22(22) 11/06/73 19-DEC-73 9849 PAGE 16
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS LENGTH EXCEPTIONS RUN NUMBER
 NAME PIN ORDER
 RB D13 A04L2 1-01 * 2 145
 RB D13 C04L2 1-02 * 1 145
 RB D13 F03P2 1-03 * 145

D811A.H RUN NAME	HNU28R.V22(22) 11/06/73							19-DFC-13	9:49	PAGE 20					
	A/P	PIN	ORDFR	BAY -	G	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTONS	RUN NUMBER
RIGHT BUS C00		B04U2		1-01 *							1				186
RIGHT BUS C00		D04U2		1-02 *							2				186
RIGHT BUS C00		D03S2		1-03 *											186
RIGHT BUS C00				1									10-4/8		186
RIGHT BUS C01		B04I2		1-01 *	1						1		3-3		187
RIGHT BUS C01		D03N2		1-02 *							2				187
RIGHT BUS C01		D04T2		1-03 *											187
RIGHT BUS C01				1									10-3/8		187
RIGHT BUS DCLO		B04F2	C03T2	1-01 *							1				188
RIGHT BUS DCLO		C03T2		1-02 *							2		7-0		188
RIGHT BUS DCLO		D04F2		1-03 *											188
RIGHT BUS DCLO				1									20-7/8		188
RIGHT BUS INIT		A04A1		1-01 *							1		3-7		189
RIGHT BUS INIT		C04A1		1-02 *							2				189
RIGHT BUS INIT		C03L1		1-03 *											189
RIGHT BUS INIT				1									12-1/8		189
RIGHT BUS INTK		A04B1		1-01 *							1		3-6		190
RIGHT BUS INTK		C04B1		1-02 *							2				190
RIGHT BUS INTK		C03N1		1-03 *											190
RIGHT BUS INTK				1									11-7/8		190
RIGHT BUS MSYN		B04V1		1-01 *							1				191
RIGHT BUS MSYN		D03K1		1-02 *							2				191
RIGHT BUS MSYN		D04V1		1-03 *											191
RIGHT BUS MSYN				1									10-4/8		191
RIGHT BUS NPG		A04U1		1-01 *							1				192
RIGHT BUS NPG		C03B1		1-02 *							2				192
RIGHT BUS NPG		C04U1		1-03 *											192
RIGHT BUS NPG				1									10-9/8		192
RIGHT BUS PA		A0441		1-01 *							1		3-7		.43
RIGHT BUS PA		C0441		1-02 *							2				193
RIGHT BUS PA		D03E1		1-03 *											193
RIGHT BUS PA				1									12-1/8		193
RIGHT BUS PH		A04N2		1-01 *							1				194
RIGHT BUS PH		C04N2		1-02 *							2				194
RIGHT BUS PH		D03E2		1-03 *											194
RIGHT BUS PH				1									10-6/8		194

DB11A.H RUN NAME	HND268,V22(22) 11/06/73							REMARKS	14-DEC-73	Y14-	L14-	T14-	
	A/P	PIN	URDEH	BAY -	Q	DRA	RV PG Y						X
	NAME	PIN	URDEH						Length	Faceoff	End	End	
RIGHT BUS SACK		A04R2		1-01	*								195
RIGHT BUS SACK		C04R2		1-02	*								195
RIGHT BUS SACK		C03N2		1-03	*								195
RIGHT BUS SACK				1						10-4/9			195
RIGHT BUS SSYN		R04U1		1-01	*								196
RIGHT BUS SSYN		D03H2		1-02	*								196
RIGHT BUS SSYN		D04U1		1-03	*								196
RIGHT BUS SSYN				1						10-2/9			196
RIGHT NPR		A04S2		1-01	*								197
RIGHT NPR		C04S2		1-02	*								197
RIGHT NPR		F02A1		1-03	*								197
RIGHT NPR				1						14-5/9			197

DB11A.H RUN NAME	HND288.V22(22) 11/06/73							19-DEC-73		9149 LENGTH	EXCEPTIONS		PAGE 18 RUN NUMBER		
	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS			
RIGHT A15		B04R1		1-01 *							2		3-6	163	
RIGHT A15		D04R1		1-02 *							1			163	
RIGHT A15		F01E1		1-03 *										163	
RIGHT A15				1									15-3 1/8	163	
RIGHT A16		B04S2		1-01 *							2			164	
RIGHT A16		D04S2		1-02 *							1			164	
RIGHT A16		F01L1		1-03 *										164	
RIGHT A16				1									15-2 1/8	164	
RIGHT A17		B04S1		1-01 *							2		3-6	165	
RIGHT A17		D04S1		1-02 *							1			165	
RIGHT A17		F01K1		1-03 *										165	
RIGHT A17				1									15-5 1/8	165	
RIGHT RG4		B04E2	D04E2	1-01 *	H						2	TWP		HAND WIKE	166
RIGHT RG4		D04E2	F02F2	1-02 *	H						1	TWP		HAND WIKE	166
RIGHT RG4		F02F2		1-03 *										TO HERE	166
RIGHT RG4				1									15-4 1/8	166	
RIGHT RG4 RUF		C03F1		1-01 *							1				167
RIGHT RG4 RUF		F02V2		1-02 *											167
RIGHT RG4 RUF				1									12-0 1/8	167	
RIGHT RG5		B04B1	D04B1	1-01 *	H						2	TWP		HAND WIKE	168
RIGHT RG5		D04B1	F02T2	1-02 *	H						1	TWP		HAND WIKE	168
RIGHT RG5		F02T2		1-03 *										TO HERE	168
RIGHT RG5				1									17-2 1/8	168	
RIGHT RG5 RUF		C03C1		1-01 *	1						1		6-3		169
RIGHT RG5 RUF		F02S1		1-02 *											169
RIGHT RG5 RUF				1									13-3 1/8	169	
RIGHT RG6		B04A1	D04A1	1-01 *	H						2	TWP		HAND WIKE	170
RIGHT RG6		D04A1	F02N2	1-02 *	H						1	TWP		HAND WIKE	170
RIGHT RG6		F02N2		1-03 *										TO HERE	170
RIGHT RG6				1									16-6 1/8	170	
RIGHT RG6 RUF		C03H1		1-01 *							1				171
RIGHT RG6 RUF		F02L2		1-02 *											171
RIGHT RG6 RUF				1									10-6 1/8	171	
RIGHT RG7		A04V1	C04V1	1-01 *	H						2	TWP		HAND WIKE	172
RIGHT RG7		C04V1	F02K1	1-02 *	H						1	TWP		HAND WIKE	172
RIGHT RG7		F02K1		1-03 *										TO HERE	172
RIGHT RG7				1									17-2 1/8	172	

DB11A.H RUN NAME	HND268.V22(22) 11/06/73								19-DEC-73	9:49	PAGE 19				
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
		NAME	PIN	ORDER											
RIGHT RG7 RUF		C03D2		1-01 *							1		6-0		173
RIGHT RG7 RUF		F02J1		1-02 *											173
RIGHT PG7 RUF				1										12-5/8	173
RIGHT PR4		F04D2		1-01 *							1				174
RIGHT PR4		D04D2		1-02 *							2				174
RIGHT PR4		F02L1		1-03 *										13-6/8	174
RIGHT PR4				1											
RIGHT RH5		H04C1		1-01 *	1						1		3-7		175
RIGHT RH5		D04C1	E02J1	1-02 *							2				175
RIGHT RH5		F02J1		1-03 *										14-1/8	175
RIGHT RH5				1											
RIGHT RH6		A04U2		1-01 *							2				176
RIGHT RH6		F04U2		1-02 *							1				176
RIGHT RH6		F02F1		1-03 *										14-2/8	176
RIGHT RH6				1											
RIGHT RK7		C04I2		1-01 *							2				177
RIGHT RK7		F02D1	A04I2	1-02 *							1				177
RIGHT RK7		A04I2		1-03 *										18-6/8	177
RIGHT RK7				1											
RIGHT BUF ACLO		C03L2												1-PIN RUN	178
RIGHT BUF BBSY		C03V1												1-PIN RUN	179
RIGHT BUF DCLO		C03S2												1-PIN RUN	180
RIGHT BUF MSYN		D03J1												1-PIN RUN	181
RIGHT BUF SACK		C03P2												1-PIN RUN	182
RIGHT BUF SSYN		D03K2												1-PIN RUN	183
RIGHT BUS ACLO		R04F1	C03K1	1-01 *							1				184
RIGHT BUS ACLO		C03K1		1-02 *							2			2-4	184
RIGHT BUS ACLO		D04F1		1-03 *											184
RIGHT BUS ACLO				1										11-1/8	184
RIGHT BUS BBSY		A04P2		1-01 *							1				185
RIGHT BUS BBSY		C04P2	C01U2	1-02 *							2				185
RIGHT BUS BBSY		C01U2		1-03 *											185
RIGHT BUS BBSY				1										11-4/8	185

DB11A.H HND288.V22(22) 11/06/73
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS 19-DFC-73 LENGTH 9:49 EXCEPTIONS PAGE 20
 NAME PIN ORDER

RIGHT BUS C00	B04U2	1-01 *		1									186
RIGHT BUS C00	D04U2	1-02 *		2									186
RIGHT BUS C00	D03S2	1-03 *											186
RIGHT BUS C00		1										10-4/8	186
RIGHT BUS C01	B04T2	1-01 *	1		1							3-3	187
RIGHT BUS C01	D03N2	1-02 *			2								187
RIGHT BUS C01	D04T2	1-03 *											187
RIGHT BUS C01		1										10-3/8	187
RIGHT BUS DCL0	B04F2	C03T2	1-01 *		1								186
RIGHT BUS DCL0	C03T2	1-02 *			2							7-0	186
RIGHT BUS DCL0	D04F2	1-03 *											186
RIGHT BUS DCL0		1										20-7/8	186
RIGHT BUS INIT	A04A1	1-01 *			1							3-7	184
RIGHT BUS INIT	C04A1	1-02 *			2								184
RIGHT BUS INIT	C03L1	1-03 *											184
RIGHT BUS INIT		1										12-1/8	184
RIGHT BUS INTK	A04B1	1-01 *			1							3-6	186
RIGHT BUS INTK	C04B1	1-02 *			2								186
RIGHT BUS INTK	C03N1	1-03 *											186
RIGHT BUS INTK		1										11-7/8	186
RIGHT BUS MSYN	B04V1	1-01 *			1								181
RIGHT BUS MSYN	D03K1	1-02 *			2								181
RIGHT BUS MSYN	D04V1	1-03 *											181
RIGHT BUS MSYN		1										10-4/8	181
RIGHT BUS NPG	A04U1	1-01 *			1								184
RIGHT BUS NPG	C03H1	1-02 *			2								184
RIGHT BUS NPG	C04U1	1-03 *											184
RIGHT BUS NPG		1										10-4/8	184
RIGHT BUS PA	A04K1	1-01 *			1							3-7	183
RIGHT BUS PA	C04K1	1-02 *			2								183
RIGHT BUS PA	D03E1	1-03 *											183
RIGHT BUS PA		1										12-1/8	183
RIGHT BUS PB	A04N2	1-01 *			1								184
RIGHT BUS PB	C04N2	1-02 *			2								184
RIGHT BUS PB	D03E2	1-03 *											184
RIGHT BUS PB		1										12-0/8	184

DB11A.H HND288.V22(22) 11/06/73
 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X Z REMARKS 19-DFC-73 LENGTH 9:49 EXCEPTIONS PAGE 21
 NAME PIN ORDER

RIGHT BUS SACK	A04R2	1-01 *		1									185
RIGHT BUS SACK	C04R2	1-02 *		2									185
RIGHT BUS SACK	C03N2	1-03 *											185
RIGHT BUS SACK		1										10-4/8	185
RIGHT BUS SSYN	B04U1	1-01 *			1								186
RIGHT BUS SSYN	D03H2	1-02 *			2								186
RIGHT BUS SSYN	D04U1	1-03 *											186
RIGHT BUS SSYN		1										10-2/8	186
RIGHT NPR	A04S2	1-01 *			2								187
RIGHT NPR	C04S2	1-02 *			1								187
RIGHT NPR	F02A1	1-03 *											187
RIGHT NPR		1										14-0/8	187

ERROR LISTING

WIPE WRAP RUN NAME	HNU28R.V22(22) 11/06/73				Q	DRAW	RV	PG	Y	X	Z	REMARKS	19-DEC-73	9:49	PAGE 1
	A/P	PIN	ORDER	BAY - NAME									LENGTH	EXCEPTIONS	RUN NUMBER
		PIN	ORDER												
8 INTT		C03J1												1-PIN RUN	11
LEFT BUF BRSY		D03A1												1-PIN RUN	111
LEFT BUF C00		D03P2												1-PIN RUN	112
LEFT BUF C01		D03M2												1-PIN RUN	113
LEFT BUF DCL0		C03R1												1-PIN RUN	114
LEFT BUF MSYN		D03H1												1-PIN RUN	115
LEFT BUF SSYN		D03F2												1-PIN RUN	116
RIGHT RG4		H04E2	D04E2	1-01 *	H						2	TWP		HAND WIRE	166
RIGHT BG4		D04E2	F02E2	1-02 *	H						1	TWP		HAND WIRE	166
RIGHT RG4		F02E2		1-03 *										TO HERE	166
RIGHT RG5		B04B1	D04B1	1-01 *	H						2	TWP		HAND WIRE	168
RIGHT BG5		D04B1	F02T2	1-02 *	H						1	TWP		HAND WIRE	168
RIGHT RG5		F02T2		1-03 *										TO HERE	168
RIGHT RG6		B04A1	D04A1	1-01 *	H						2	TWP		HAND WIRE	170
RIGHT RG6		D04A1	F02N2	1-02 *	H						1	TWP		HAND WIRE	170
RIGHT RG6		F02N2		1-03 *										TO HERE	170
RIGHT RG7		A04V1	C04V1	1-01 *	H						2	TWP		HAND WIRE	172
RIGHT RG7		C04V1	F02K1	1-02 *	H						1	TWP		HAND WIRE	172
RIGHT RG7		F02K1		1-03 *										TO HERE	172
RIGHT BUF ACLO		C03L2												1-PIN RUN	178
RIGHT BUF BRSY		C03V1												1-PIN RUN	179
RIGHT BUF DCL0		C03S2												1-PIN RUN	180
RIGHT BUF MSYN		D03J1												1-PIN RUN	181
RIGHT BUF SACK		C03P2												1-PIN RUN	182
RIGHT BUF SSYN		D03K2												1-PIN RUN	183

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

CONTINUATION SHEET

ENGINEERING SPECIFICATION

DATE 1/3/71

TITLE DB11-A Bus Repeater

REVISIONS

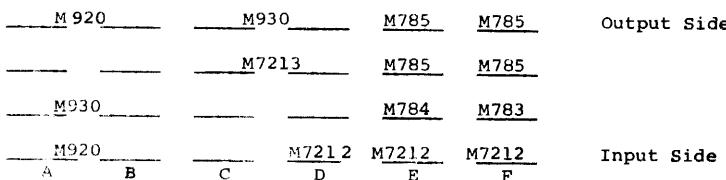
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	REVISED PER ECO 00002	00002			Vastiani	1/9/71
B	ECO CHANGE	00005	PASTIANI	6-14-72	Vastiani	1/1/73
C	CHANGE PER ECO	DB11A-00008	REILLY	10-73	Skull	10-3-73

The bus repeater will allow the extension of the Unibus beyond 18 unit loads. The bus repeater will not degrade the bus cycle time of any device before the bus repeater, and will add a maximum 375ns to cycle time of devices addressed beyond the bus repeater. The repeater will allow 18 more loads to be hung on the Unibus.

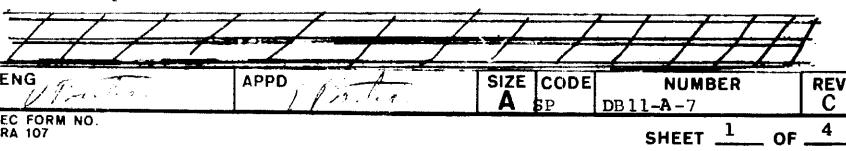
1.1 The bus repeater DB11 will be contained in a single system unit with an input and output unibus connection. The modules required are:

- a. 4 - M785 Transceiver
- b. 1 - M783 Drivers
- c. 1 - M784 Receivers
- d. 3 - M7212 Address Buffer Cards
- e. 1 - M7213 Buffer Master Card
- f. 2 - M730 Resistor Termination Cards
- g. 1 - M7248 UNIBUS REPEATER BUS BUSY

A layout of the modules is shown below:



NOTE:1 The Unibus is Bidirectional, but the bus repeater is not symmetrical i.e. the processor must be on the input side of the bus repeater. This is because certain one-direction unibus signals are implemented in only one direction. All signals which must be bidirectional are so implemented.

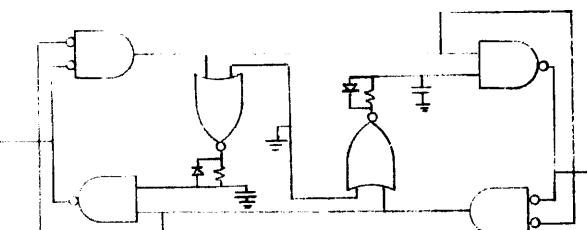


CONTINUATION SHEET

TITLE DB11-A Bus Repeater

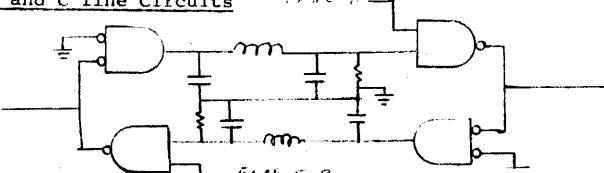
Types of Circuits

BBSY, DCLO



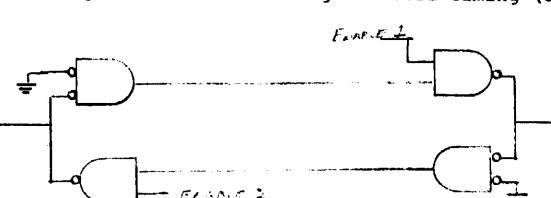
The BBSY circuit provides the A line gating depending on what side the master is on.

A line and C line Circuits



The above LC networks are a linear phase filter which provides an equal 75ns delay to assertion and negation of the A lines. These delays are required to preserve the Unibus guaranteed timing (deskewing etc.).

D line Circuits



The D line circuits are made up of M785 transceiver modules.

Unidirectional Lines

All unidirectional lines are made up of M783 and M784 modules connected together.

Programming

None, the unit is transparent to any programs.

SIZE A SP	CODE	NUMBER	REV
		DB11-A-7	C

DEC FORM NO.
DRA 109A

SHEET 3 OF 4

TITLE DB11-A Bus Repeater

Power Used:

+5 Volts @ 2.2 Amps
1.2 Unit will operate from +40°F to 120°F with relative humidity of 95%.

1.3 Unit will add zero time to bus cycles before the repeater, and 375ns worst case to bus cycles of units addressed beyond the bus repeater. All guaranteed timing on the primary unibus in terms of delay for deskewing etc., are preserved on the buffered section of the bus.

These guaranteed timings are:

- A lines good at device 75ns before MSYN;
- A lines do not change at device before MSYN drops;
- SSYN will arrive at device no more than 75ns before data is good;
- INTR will arrive at processor no more than 75ns before data is good.

The repeater represents one unit load to the primary bus.

1.4 Operation of the Repeater

The Repeater uses the BBSY circuit as a master controlling signal. The BBSY buffering circuit is a truly bidirectional circuit. From BBSY is determined the direction to enable the A-line circuits. Since the master is always asserting the A lines then by looking at BBSY the enabling signal for the A lines can be determined.

Next the direction of the D lines must be determined. This is determined from BBSY, CL, INTR signals. For DATI the D lines are enabled to the master, and for INTR the D lines are enabled to the Processor. The SSYN circuit direction is determined from the same three circuit, BBSY, CL and INTR, but is determined differently than the D line circuits.

All one direction circuits require no gating to determine direction. These include INIT, INTR, all Grant, all B requests, SACK and ACLO.

The signal DCLO uses the identical circuit as BBSY since it must also be truly bidirectional because the power fail signal could be coming from either side of the buffer. The operations of the DCLO circuit is delayed an turn on so that a multi box system will turn on.

SIZE A SP	CODE	NUMBER	REV
		DB11-A-7	C

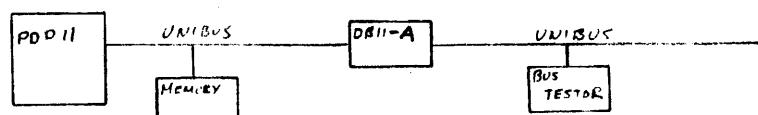
SHEET 2 OF 4

CONTINUATION SHEET

TITLE DB11-A Bus Repeater

Testing

Unit should be tested by placing it in series with the Unibus as shown in the fig



The above configuration should run ETP-2 for one hour with no errors.

SIZE A SP	CODE	NUMBER	REV
		DB11-A-7	C

DEC FORM NO.
DRA 109A

SHEET 4 OF 4

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

ACCESSORY LIST

MADE BY	CHECKED	SECTION
DATE	DATE	
ENG	PROD	ISSUED SEC
DATE	DATE	

LEGEND

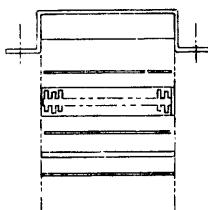
D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
PM	PAPER TAPE READ-IN-MODE

TITLE	ASSY. NO.	SIZE	CODE	NUMBER			REV.	ECO NO
				A	A	DB11-A-10		
DB11-A	SHEET / OF /	DIST.						DB11-A-00003

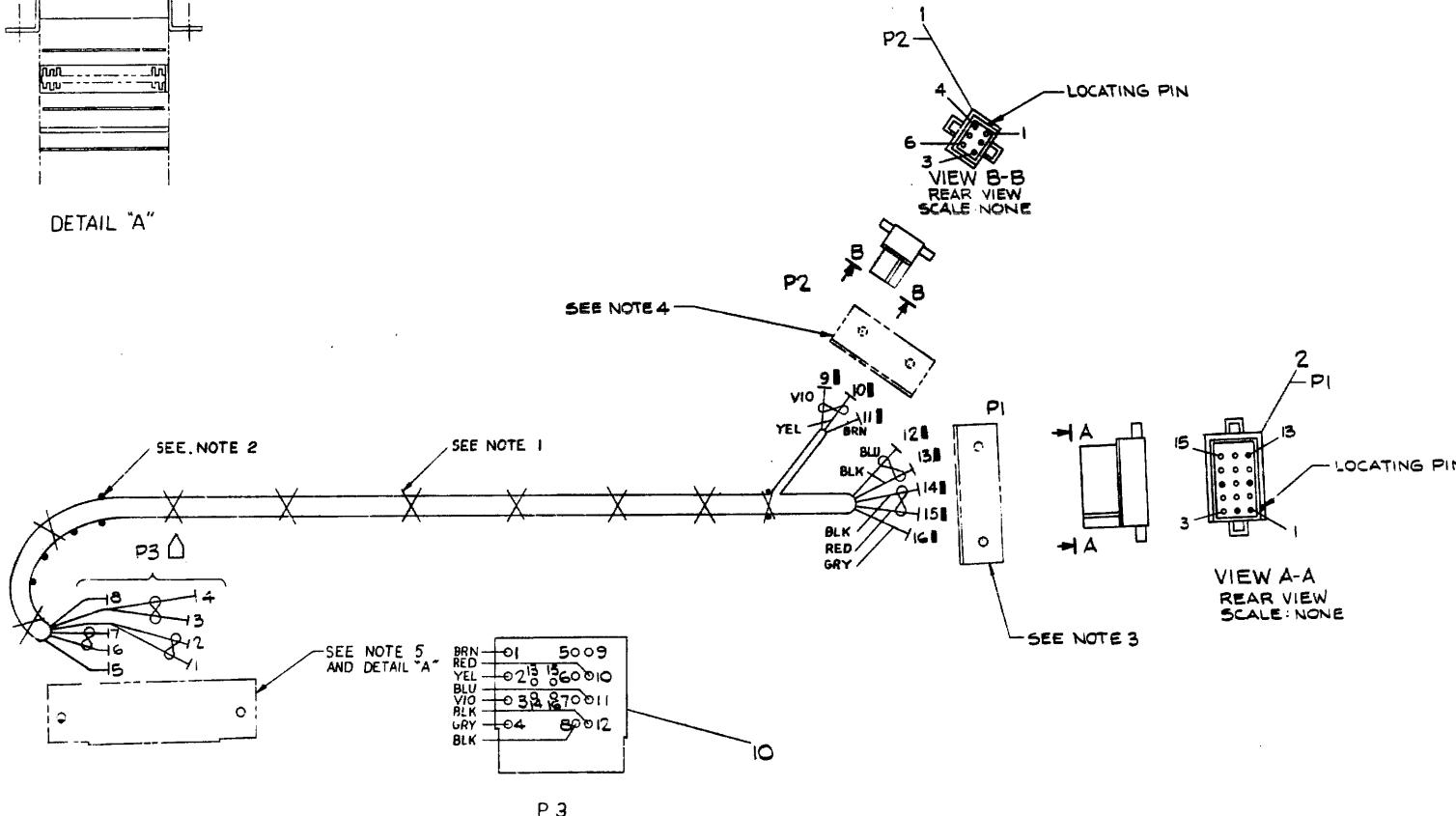
WIRE TABLE

ITEM NO.	AWG	COLOR	FROM POINT		TO POINT		SIGNAL	
			CONNECTION	TERM	CONNECTION	TERM		
5	14	RED	3	P3-10	SOLD	15	P1-1	3 +5V
	TWP	BLK	4	P3-8	SOLD	14	P1-7	3 GND
9	14	GRY	5	P3-4	SOLD	16	P1-2	3 +15V
6	14	BLK	1	P3-12	SOLD	13	P1-9	3 GND
	TWP	BLU	2	P3-11	SOLD	12	P1-13	-15V
8	18	BRN	8	P3-1	SOLD	11	P2-2	3 LTC
7	18	VIO	6	P3-3	SOLD	9	P2-3	3 DcLo
	TWP	YEL	7	P3-2	SOLD	10	P2-4	3 AcLo
11	22	-	-	P3-13	SOLD	-	P3-14	SOLD DcLo
11	22	-	-	P3-15	SOLD	-	P3-16	SOLD AcLo

- NOTES:
- USE TIE WRAPS (X) ITEM #4 APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
 - DOT (•) INDICATES NAIL LOCATIONS FOR ASSEMBLY USE ONLY, COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.
 - USE CONN BRKT C-MD-930576-0-0 MOUNT WITH WOOD SCREWS USE MATING CONN 1209350-15
 - USE CONN BRKT C-MD-930576-1-H6-0 MOUNT WITH WOOD SCREWS USE MATING CONN 1209350-06
 - USE CONN HOLD DOWN B-MD-930576-0-0 WITH PLATE B-MD-930576-0-1, USE TAPE DEC "9008734" & CONN H807 DEC (1209123) REMOVE PINS & FLANGES AS SHOWN IN DETAIL "A". MOUNT WITH WOOD SCREWS.



DETAIL "A"



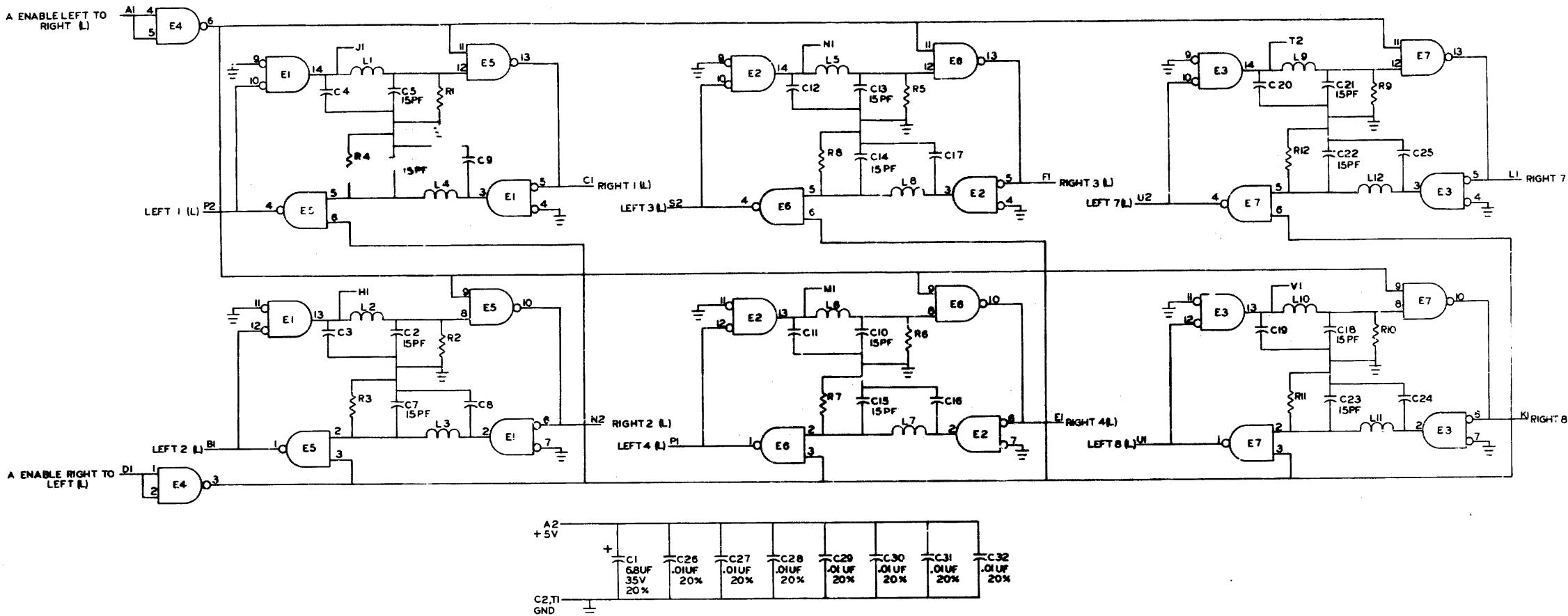
ITEM #	DESCRIPTION	PART NO.
A/R BUSS WIRE #22AWG	9107560-01	1
I POWER CONN	6772	2
A/R WIRE #14AWG GRY	9107370-08	3
A/R WIRE #18AWG BRN	9107360-0	4
A/R WIRE #16TWP YEL/VIO	9107450-47	7
A/R WIRE #16TWP BLK/BLU	9107440-06	6
A/R WIRE #14TWP BLK/RED	9107440-02	5
X A/R WRAP TIE	1209378-03	2
■ 6 PIN MALE	1209378-03	3
I HOUSING CONN 15 PIN	1209351-15	2
SYM. HOUSING CONN. 15 PIN	1209351-06	1

PARTS LIST

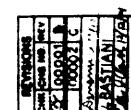
ITEM #	DESCRIPTION	PART NO.
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M722-0-1 C D CS



UNLESS OTHERWISE SPECIFIED
CAPACITORS ARE 100PF, 100V, 5%
RESISTORS ARE 1K, 1/4W, 5%
INDUCTORS ARE 47UH
PIN 7 = GND ON EACH IC EXCEPT DECS640
PIN 14 = +5V
PIN 1 = GND ON DEC 8640
PIN 8 = +5V ON DEC 8640
E1,E2,E3 = DECS640
E4 = DEC 74H00
E5,E6,E7 = DECS881



TRANSISTOR & DIODE CONVERSION CHART

DATE	DATE	DATE	DATE
DECS	AM	BL	EM
100002	100002	100002	100002
K	100002	100002	100002

EQUIPMENT CORPORATION

BUS REPEATER
A LINES

D CS M722-0-1 C

PRINTED CIRCUIT BOARD

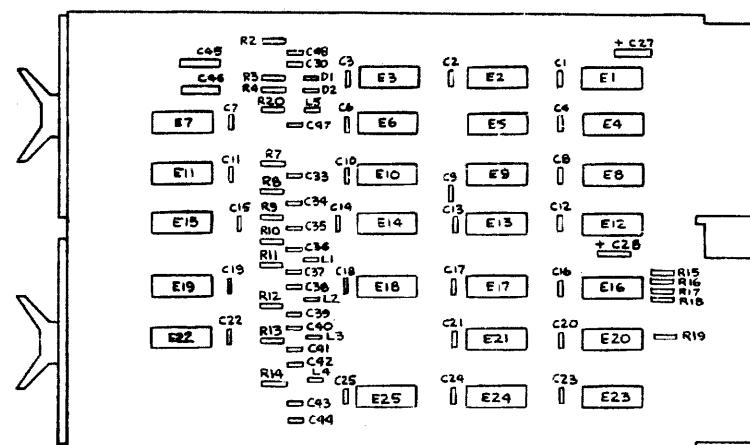
DIS 134-14-552

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PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	C37,C39,C41,C43,C48	CAP. 15 PF 100V 5%	1000007	5
2	C36,C40,C42,C44,C47	CAP. 100PF 100V 5%	1000016	5
3	C30	CAP. 560PF 100V 5%	1000025	1
4	C33,C34	CAP. 1000PF 100V 5%	1000042	2
5	C27,C28	CAP. 6.8 UF 35V 20%	1000067	2
6	C1-C4,C6-C20	CAP. .01UF 100V 20%	1001610	24
7	C44	CAP. .01UF 100V 10%	1002342	1
8	C36,C38	CAP. 1200PF 100V 5%	1002424	2
9	C46	CAP. .15UF 100V 10%	1002629	1
10	D1,D6	DIODE D600	1105366	2
11	R7,R8	RES. 150 1/4W 10%	1300252	2
12	R11-R14,R20	RES. 1K 1/4W 5%	1300365	5
13	R17-R19,R20	RES. 300 1/4W 5%	1301425	5
14	R15-R19	RES. 390 1/4W 5%	1300309	5
15	L1-L8	INDUCTOR 47 UH 10%	1610271	5
16	I1	IC DEC7400	1905575	1
17	E10	IC DEC74H00	1909056	1
18	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC8640	1911469	6
19	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC8881	1909705	6
20	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC74H04	1909931	1
21	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC8818	1909713	4
22	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC7404	1909687	2
23	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC7402	1909004	3
24	I1,I2,I3,I4,I5,I6,I7,I8,I9,I10,I11,I12,I13,I14,I15,I16,I17,I18,I19,I20,I21,I22,I23,I24	IC DEC7474	1905547	1

COMPONENT PLACEMENT



NOTES:

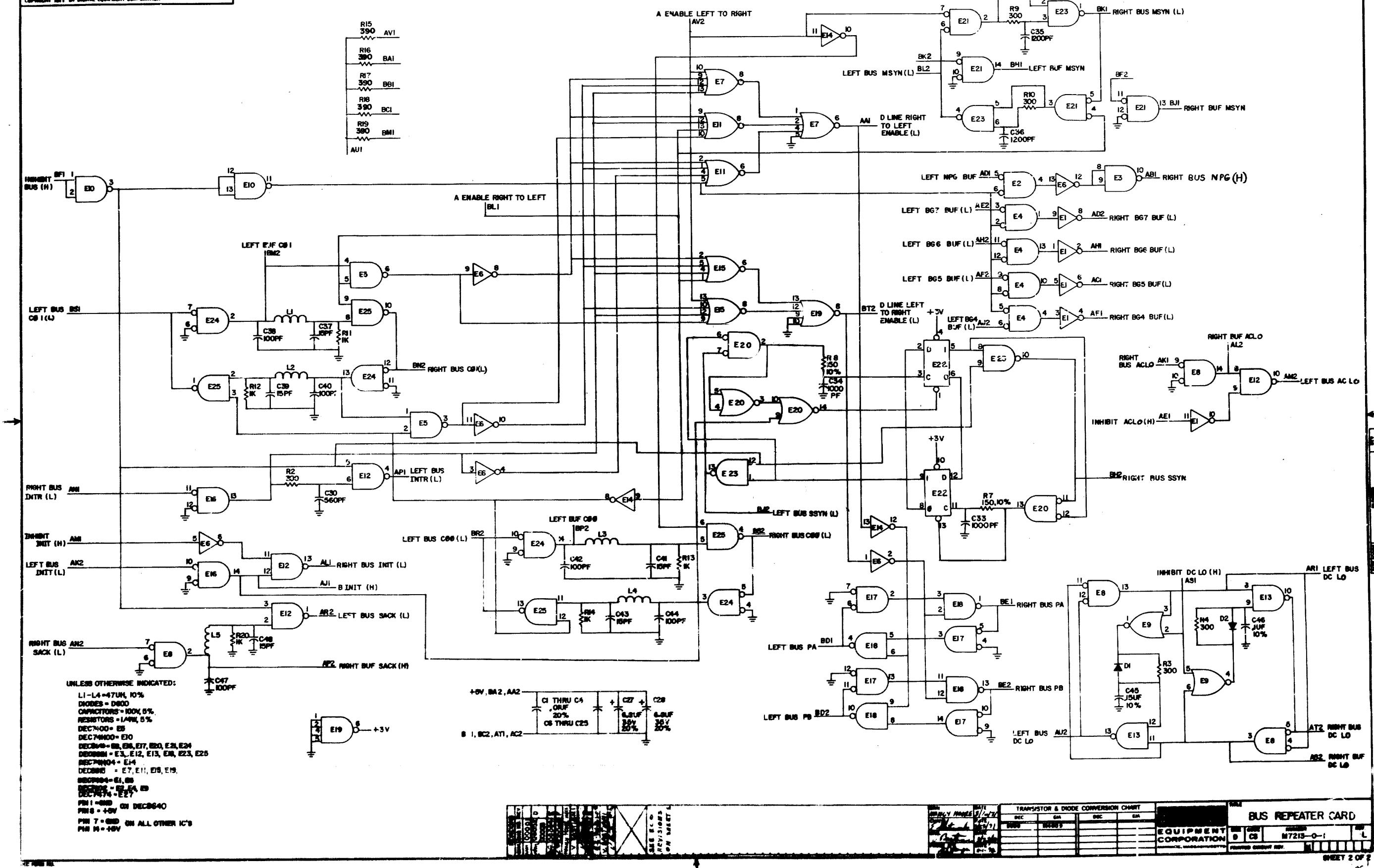
1. DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE, PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM. CAPACITORS WITHOUT NOTED VALUES ARE .01 MFD.
2. GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

IC TYPE	GND	+5V
DEC8640	PIN 1	PIN 8

REVISION	CHANGE NO	REV	DATE
CHN	M7213-00006	H	
CHN	M7213-00006	H	1-7-72
V	V. BASTIANI		
S	M7213-00007	J	
S	M7213-00007	J	1-7-72
V	V. BASTIANI		
K	M7213-00008	K	
K	M7213-00008	K	1-7-72
V	V. BASTIANI		
L	M7213-00010	L	
L	M7213-00010	L	1-7-72
V	V. BASTIANI		
T	M7213-00013	T	
T	M7213-00013	T	1-7-72
E	E.CLAIR		
Z	Z.ZUMA	Z	

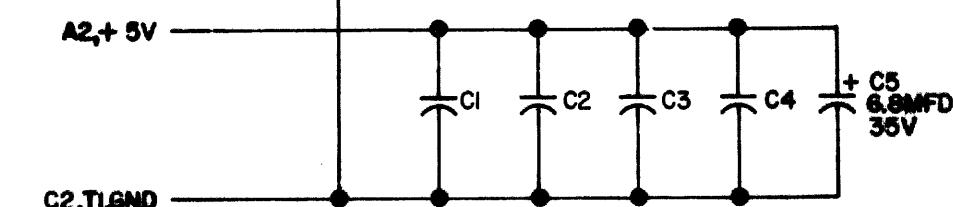
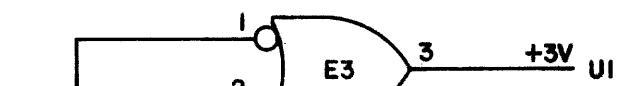
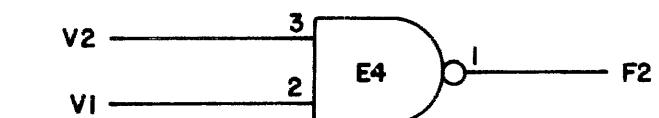
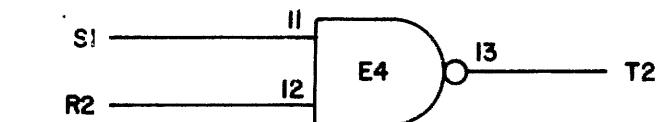
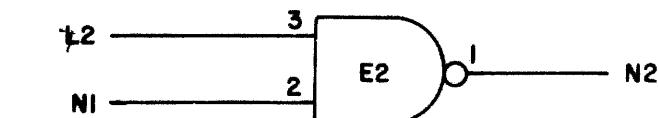
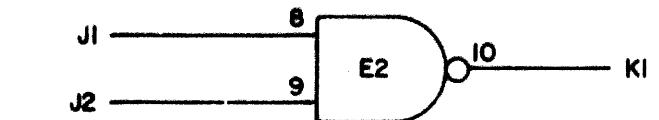
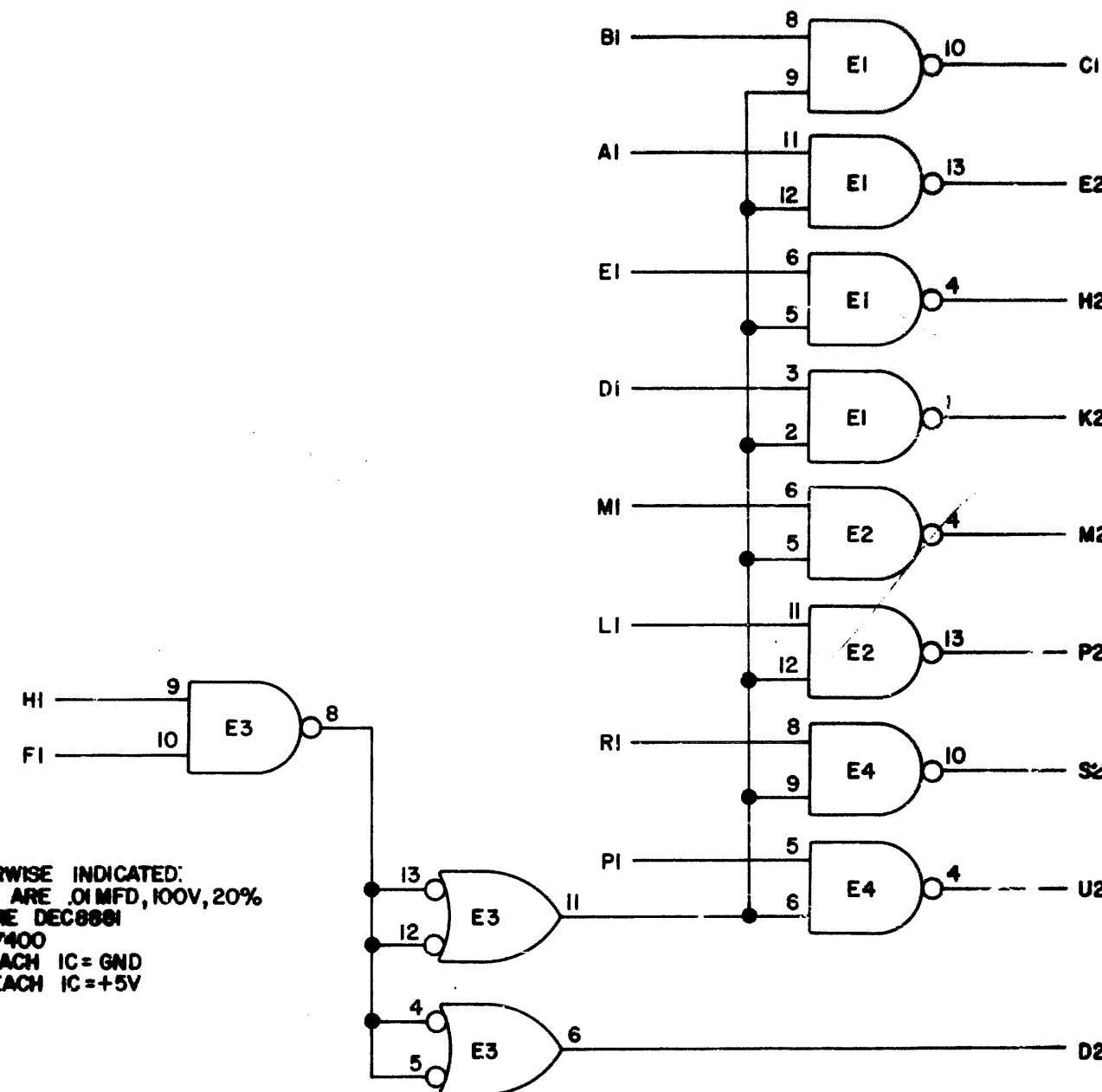
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN	DATE	EQUIPMENT CORPORATION	
CNC	DATE	MAYNARD MASSACHUSETTS	
EWL	DATE	TITLE	
PROL	DATE	BUS REPEATER CARD	
PROD	DATE	Mfg. Stamps	
FIRST USED ON		SIZE CODE	
FINISH		NUMBER	
SCALE		REV.	
SHEET		DIST.	
1 OF 2		M7213-0-1	

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REV. A
NUMBER M783-0-1
SIZE CS
CODE 6



REVISIONS	CHG NO.	REV.

DRN.	A. Safety	DATE	11-21-69
C/NK'D	11-21-69	DATE	1-1-70
END	E. Johnson	DATE	2/25/70
PROD		DATE	

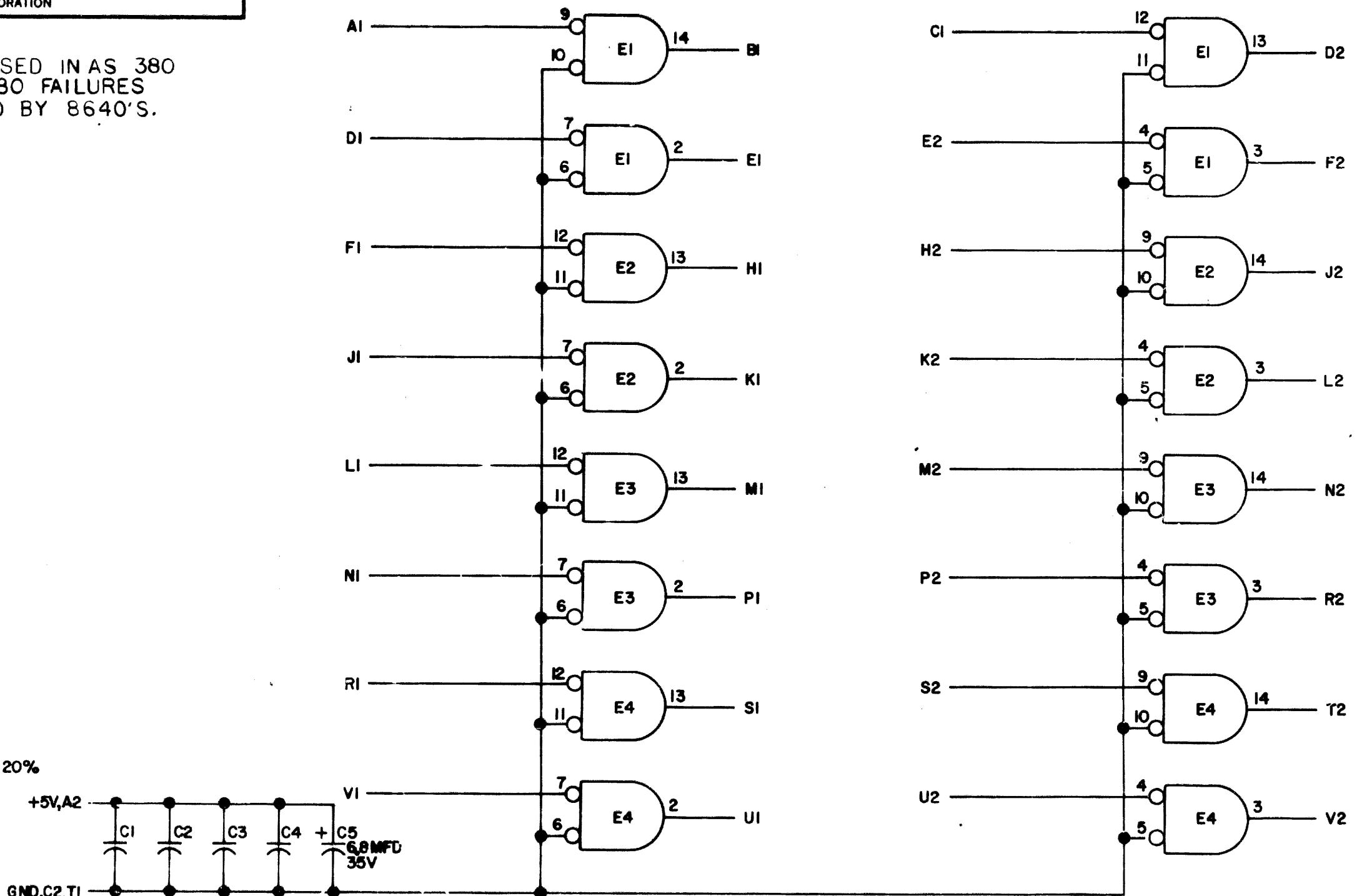
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	NEC	EIA



SIZE	CODE	NUMBER	REV.
B	CS	M783-0-1	
PRINTED CIRCUIT REV			

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NOTE:
DEC 8640'S WERE PHASED IN AS 380 REPLACEMENTS. ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S.



REVISIONS		CHK	CHG NO	REV	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Z
<i>[Handwritten signatures]</i>																													
<i>[Handwritten signatures]</i>																													
<i>[Handwritten signatures]</i>																													
<i>[Handwritten signatures]</i>																													

DRN	<i>[Signature]</i>	DATE 11-1969
CHN#	<i>[Signature]</i>	DATE 1-7-70
SPN#	<i>[Signature]</i>	DATE 3/1/70
PRND	<i>[Signature]</i>	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE UNIBUS RECEIVERS
M784

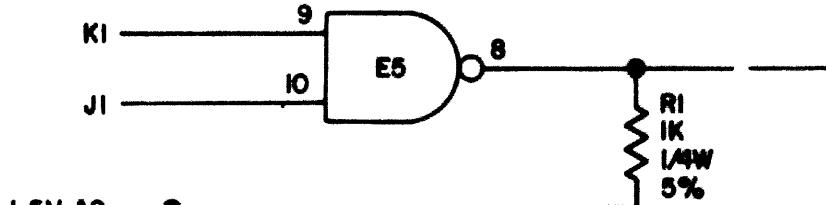
SIZE CODE B CS NUMBER M784-0-1

REV C

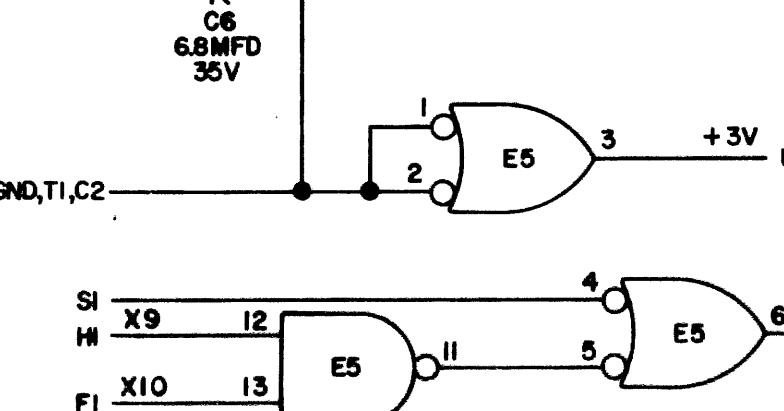
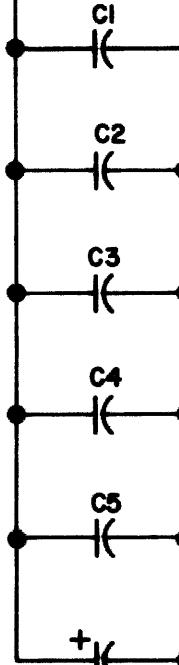
PRINTED CIRCUIT REV A B C

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REV B
MAY 1969
NUMBER M785-0-1
SHEET 8 OF 22



NOTE:
DEC 8640'S WERE PHASED
IN AS 380 REPLACEMENTS. ANY
380 FAILURES SHOULD BE RE-
PLACED BY 8640'S.



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MF, 100V, 20%

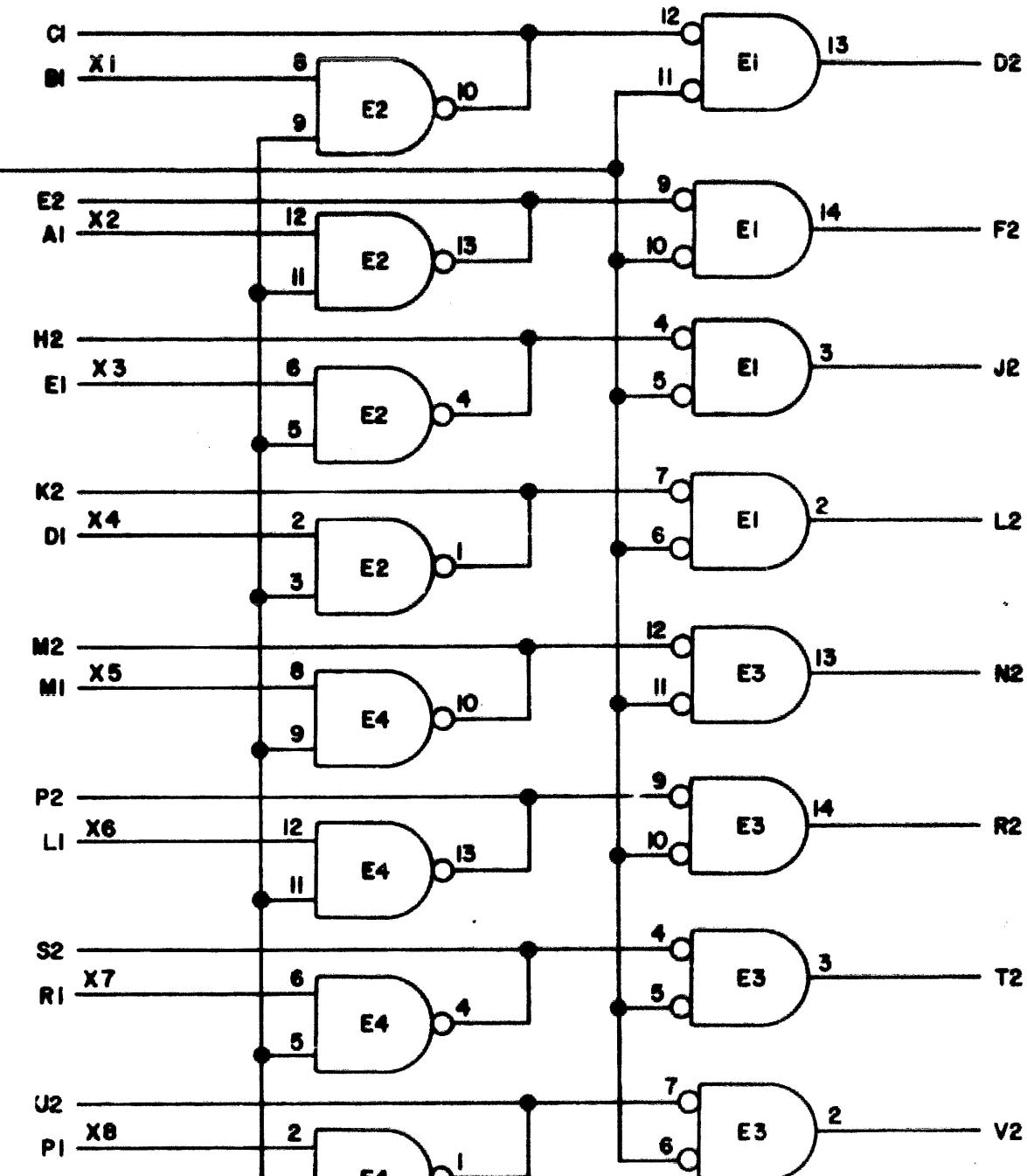
E1, E3 ARE DEC 8640

E2, E4 ARE DEC8881

E5 IS DEC7400

PIN 1 ON E1, E3 = GND
PIN 8 ON E1, E3 = +5V

PIN 7 ON E2, E4, E5 = GND
PIN 14 ON E2, E4, E5 = +5V



REVISIONS	CHK	CHG NO.	REV
		A	B
		00001	
		00003	

DRN	DATE
C. P. Stay	11-19-69
CMK'D	1-7-70
EIA	3/1/70
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE UNIBUS TRANCEIVERS
M785

SIZE B CODE CS NUMBER M785-0-1 REV B
PRINTED CIRCUIT REV. A B

8

5

1

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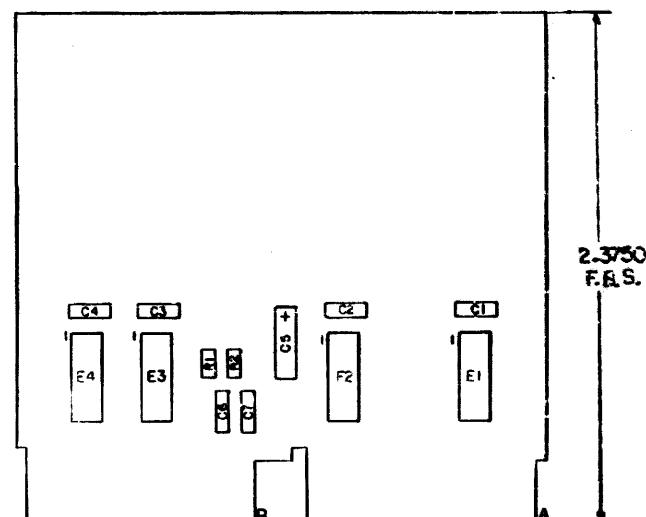
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1

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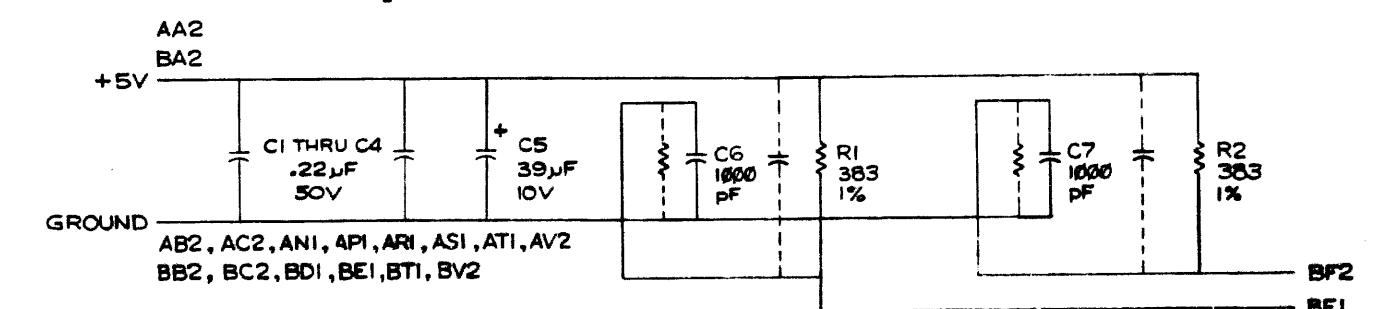
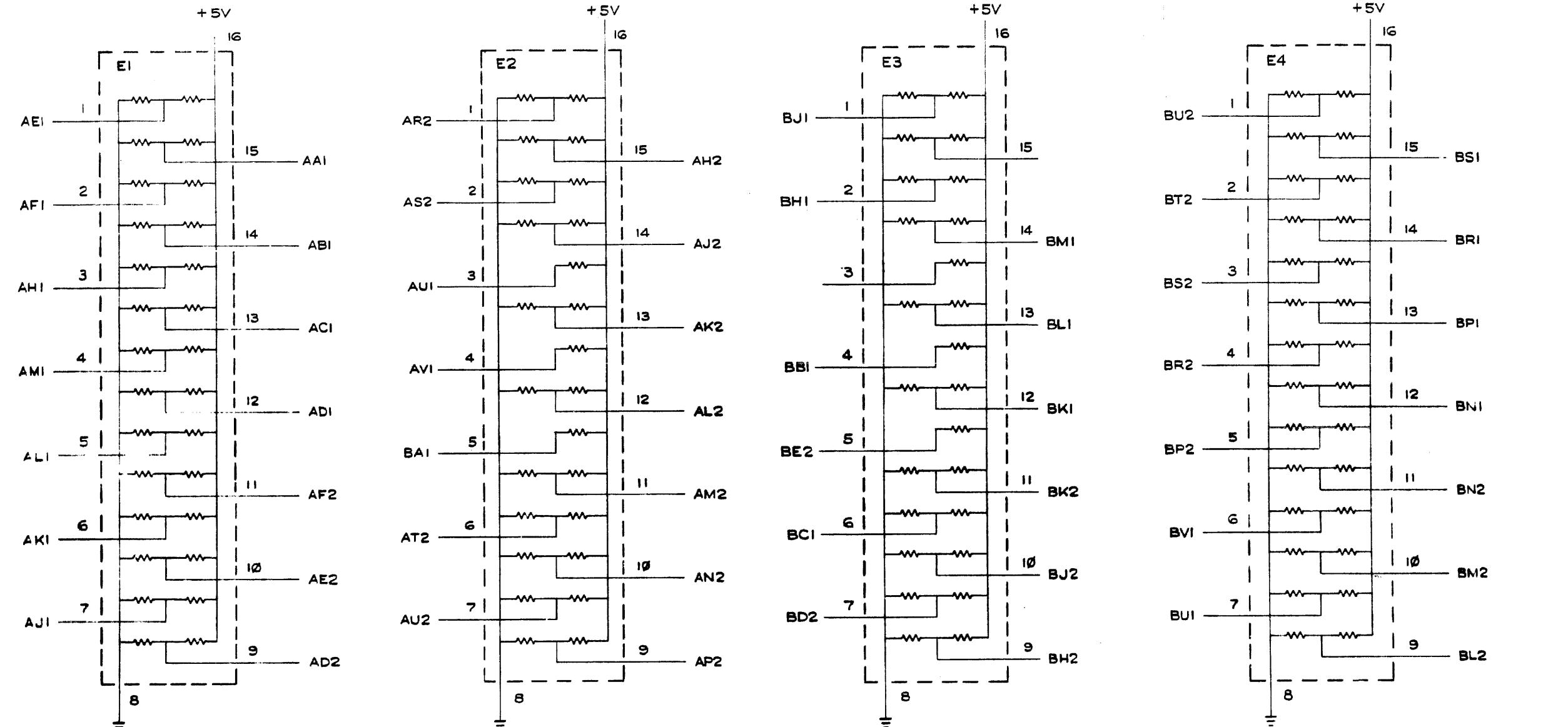
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M930-0-4	1	
REF	ASSY/ DRILLING HOLE LAYOUT	D-A+M935-0-5	2	
REF	MODULE ECO HISTORY	B-MH-M935-0-6	3	
1	ETCHED CIRCUIT BOARD	5008698	4	
4	C1 THRU C4	CAF .22 _u F 50V CER	1010274-01	5
2	C6,C7	CAP 1000 _p F 250V 20% DISC	1000243	6
1	C5	CAP 39 _u F 10V 10% TANT	1020076	7
2	R1,R2	RES 383 _u 1/4W 1%	1305125	8
2	E1,E4	28 RES DIVIDER NETWORK	1312628-00	9
2	E2,E3	25 RES DIVIDER NETWORK	1312628-01	10



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8 7 6 5 4 3 2 1

3 AAI DCS M930-0-1 2



REVISIONS		
CHG.	CHANGE NO.	REV.
1		

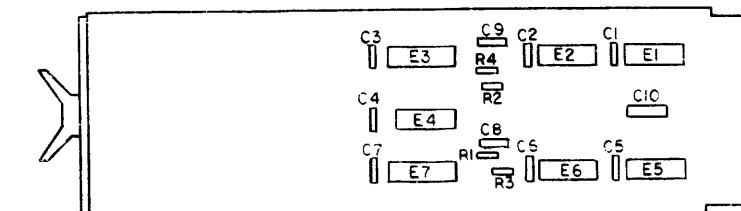
1	SCALE →	SHEET 2 OF 2	DIST.	1
TITLE BUS TERMINATOR		REF. CODE DCS M930-0-1	NUMBER	REV. E

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PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E5	TC DEC 7404	1909686	1
2	E2,E6	TC DEC 314	1909704	2
3	E5	TC DEC 314	1909705	1
4	E4	TC DEC 7405	1909910	1
5	E5,E7	TC DEC 74123	1910436	2
6	C10	CAP 6.8UF 10V 20% S TANT	1000067	1
7	C1-C7	CAP 0.1UF 100V 20% DISC	1001610	7
8	C6,C9	CAP 27PF 100V 5% MICA	1001739	2
9	R2,R3	RES 5.6K 1/4W 5%	1301874	2
10	R1,R4	RES 5.1K 1/8W 1%MF	1304854	2
11		SPLIT LUGS	9005735	8

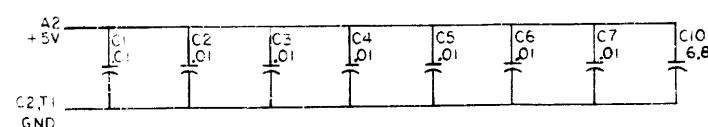
COMPONENT PLACEMENT



NOTES:

1. DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE, PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM. CAPACITORS WITHOUT NOTED VALUES ARE OI MFD.
2. GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

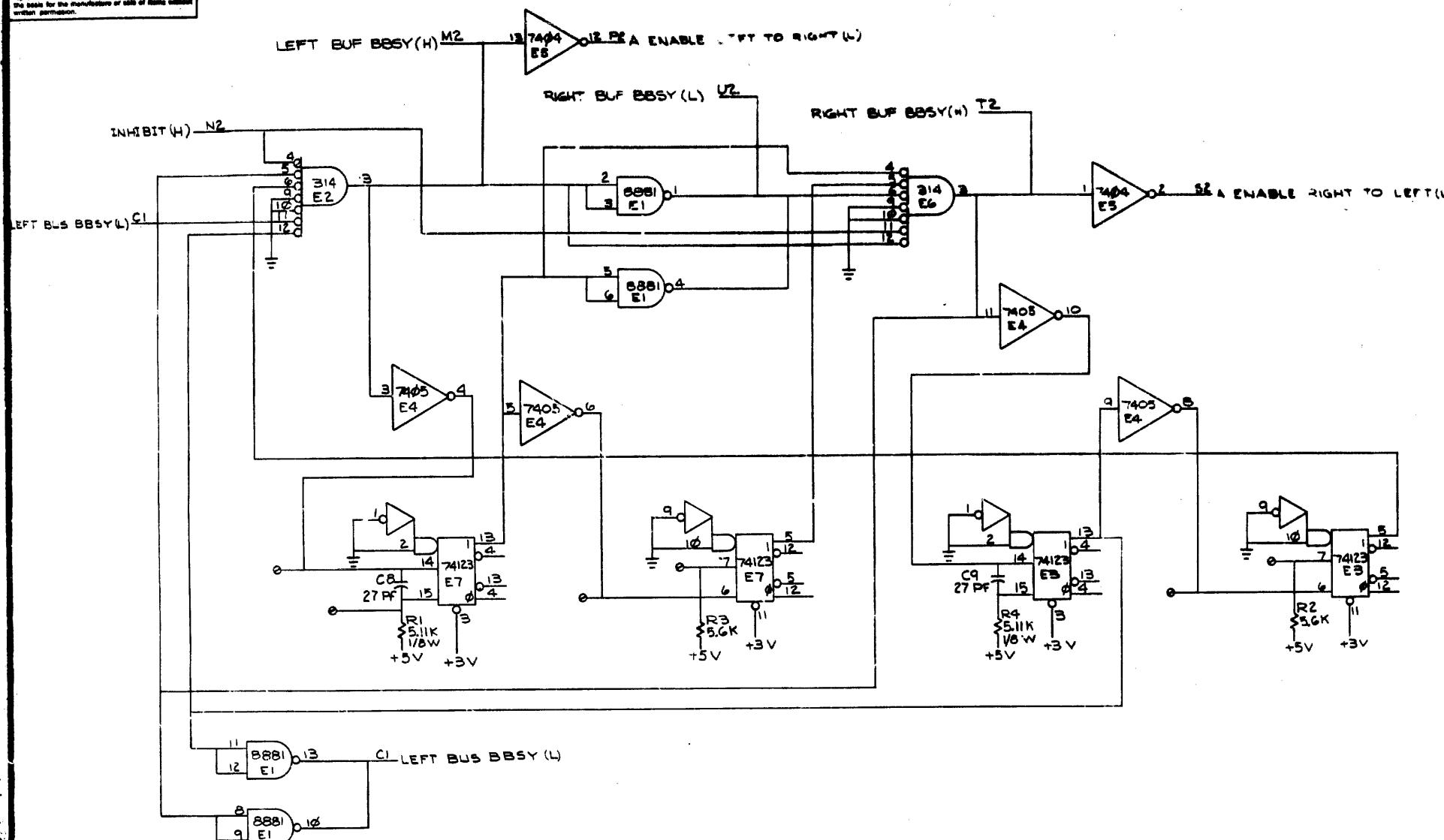
IC TYPE	GND	+5V
DEC 74123	PIN 8	PIN 16
DEC 314	PIN 1	PIN 8



A
REV
REVISIONS
CHANGE NO
DATE

ITEM USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
UNIBUS REPEATER			
UNLESS OTHERWISE SPECIFIED DIRECTION IN INCHES	1	1	EQUIPMENT CORPORATION WALTHAM MASSACHUSETTS
TOLERANCES DECIMAL FRACTION ANGLES ± .000 ± 1/16 ± 1° 00'	1	1	TEL
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	1	1	1
MATERIAL SEE PARTS LIST	1	1	1
FINISH	1	1	1
UNIBUS REPEATER BBSY			
DCSM7248-0-1			

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
<u> </u>			PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRAWN <i>C. E. Hargrave</i> CNC	DATE <i>12/20/01</i>	EQUIPMENT CORPORATION WOBURN MASSACHUSETTS	
DECIMALS ANGLES	DEGREES <i>Weston</i>	DATE <i>12/20/01</i>	TITLE	
.0000 - .0005 ± 0° 30'	PROFILING <i>Weston</i>	DATE <i>12/20/01</i>	UNIBUS REPEATER	
.0000 - .002 .0000	ROUTING <i>Weston</i>	DATE <i>12/20/01</i>	BBSY	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				
MATERIAL <u> </u>	NEXT HIGHER AMT:		020000	REV.
FINISH <u> </u>	SCALE <i>1:1</i>	SHEET <i>2 OF 2</i>	DCSM7248-0-1	B
			QNTY	